

Product Selection Guide

Analog, Digital & Power Semiconductors

September 2026 | 1,116 model and series entries | 14 product groups | 80 product families

Product group	Entries	Families
Amplifiers & Special Function Circuits	108	15
Data Converters	34	4
DC/DC & Power Control	27	5
Drivers	53	5
Interface	41	3
Isolation	38	10
LDO & Voltage Reference	80	3
Power Switches & Supervisors	17	3
Logic & Voltage Translation	92	3
Sensors	12	2
Memory & Microcontrollers	33	5
MOSFETs, SiC & IGBTs	176	10
Diodes & Protection	219	6
Bipolar Transistors	186	6

How to use this guide

Each family table includes its complete selection-handbook parameters, normalized units, Package and Cross Reference. Original parameter names and values remain available on each product page and in the original-values CSV. Different handbook listings for a model are retained as separate rows. Series are not expanded into invented ordering codes.

A dash indicates that no value is listed. “Confirmation pending” and “unit pending” preserve unresolved source information. Cross references are selection aids, not a claim of drop-in compatibility. Verify pinout, electrical limits and qualification for the intended design. Detailed device datasheets remain necessary for final design.

Amplifiers & Special Function Circuits

Analog Switches & Multiplexers

Model / series	Function	Channels	Supply voltage (V)	On resistance (Ω)	Off leakage (nA)	On leakage (nA)	High-level input (V)	Low-level input (V)	Turn-on time (ns)	Turn-off time (ns)	Package	Cross Reference
BIS2231	Analog Switches & Multiplexers	1	6	1.5	1000	1000	1.5	5	50	17	SOT23-6	—
BIS3001	Analog Switches & Multiplexers	1	7.5	4.4	1000	1000	1.5	0.55	28	23	SC70-6	—
BIS3157	Analog Switches & Multiplexers	1	6	8	1000	1000	2.4	0.5	30	20	SOT23-6/SC70-6	TS5A3157DBV
BIS406	Analog Switches & Multiplexers	16	44	125	200	200	2.4	0.8	350	220	SOP28	DG406
BIS5228	Analog Switches & Multiplexers	2	5.5	0.8	500	—	0.4	0.5	45	230	QFN-10	—
BIS7227	Analog Switches & Multiplexers	1	5.5	6	1000	—	—	—	30	20	QFN-10	—

Current-sense Amplifiers

Model / series	Function	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Common-mode voltage (V)	Gain (V/V)	Package	Cross Reference
BICM193	Current-sense amplifier	18	500	210000	1	0–70	20	SOT23-5	INA193
BICM194	Current-sense amplifier with 50× gain	18	500	210000	1	0–70	50	SOT23-5/6	INA194
BICM195	Current-sense amplifier with 100× gain	18	500	210000	1	0–70	100	SOT23-5	INA195

Difference Amplifiers

Model / series	Function	Supply voltage (V)	PSRR (dB)	Input bias current (nA)	Supply current (mA)	Gain (V/V)	Package	Cross Reference
BIF8138	Differential amplifier	±5	-70	30000	30	1.0045	SOP8/MSOP8	AD8138
BIF8139	Difference Amplifiers	±5	63	8000	45	1.015	SOP8/MSOP8	AD8139

General-purpose Operational Amplifiers

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF0322	General-purpose Operational Amplifiers	4	±15	5000	150	1.2	1.2	0.5	SOP-14/TSSOP-14	—
BIF124	General-purpose Operational Amplifiers	4	±15	5000	150	1.2	1.2	0.5	SOP-14/TSSOP-14	LM124
BIF158	General-purpose Operational Amplifiers	2	±15	5000	150	1.2	0.7	0.3	SOP-8	LM158

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF2902	General-purpose Operational Amplifiers	4	±15	5000	150	1.2	1.2	0.5	SOP-14/TSSOP-14	LM2902
BIF2904	General-purpose Operational Amplifiers	2	±15	5000	150	1.2	0.7	0.3	SOP-8	LM2904
BIF741	General-purpose Operational Amplifiers	1	±15	5000	500	2.8	1.5	0.5	SOP-8	LM741

High-speed Operational Amplifiers

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF1562	High-speed Operational Amplifiers	2	36	1000	1	14	25	10	SOP-8	—
BIF2388	High-speed Operational Amplifiers	2	5.5	500	0.5	3.1	10	6	SOP-8	—
BIF301	High-speed Operational Amplifiers	1	5.5	50	0.3	9	20	25	SOT23-5	—
BIF725	High-speed Operational Amplifiers	1	10	500	1	0.93	11	11	SOT23-5	—
BIF726	High-speed Operational Amplifiers	2	10	500	1	2	11	11	SOP8	—
BIF8042	High-speed Operational Amplifiers	2	13.5	15000	1000	15	102	125	SOP-8	AD8042
BIF8051	High-speed Operational Amplifiers	1	5.5	7500	0.5	3.5	250	180	SOP-8	AD8051
BIF8052	High-speed Operational Amplifiers	2	5.5	7500	0.5	7	250	180	SOP-8	AD8052
BIF8751	High-speed Operational Amplifiers	1	5.5	7500	0.5	3.5	250	180	SOT23-5	—
BIF8752	High-speed Operational Amplifiers	2	5.5	7500	0.5	7	250	180	SOP-8	—

Instrumentation Amplifiers

Model / series	Function	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF620	Instrumentation amplifier	±15	125	28	1.7	0.001	1.2	SOP-8	AD620
BIFA04	Instrumentation Amplifiers	±15	125	2	1.7	0.001	1.2	SOP-8	AMP04

JFET-input Operational Amplifiers

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF061	JFET-input Operational Amplifiers	1	±15	6000	0.2	0.25	1	1.5	SOP-8	TL061
BIF062	JFET-input Operational Amplifiers	2	±15	6000	0.2	0.5	1	1.5	SOP-8	TL062
BIF064	JFET-input Operational Amplifiers	4	±15	6000	0.2	1	1	1.5	SOP-8	TL064

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF071	JFET-input Operational Amplifiers	1	±15	6000	0.4	5	3	13	SOP-8	TL071
BIF072	JFET-input Operational Amplifiers	2	±15	6000	0.4	5	3	13	SOP-8	TL072
BIF074	JFET-input Operational Amplifiers	4	±15	6000	0.2	10	3	13	SOP-8	TL074
BIF081	JFET-input Operational Amplifiers	1	±15	6000	0.4	5	3	13	SOP-8	TL081
BIF082	JFET-input Operational Amplifiers	2	±15	6000	0.4	5.6	3	13	SOP-8	TL082
BIF084	JFET-input Operational Amplifiers	4	±15	9000	0.2	11.2	3	13	TSSOP-14	TL084
BIF147	JFET-input Operational Amplifiers	4	±15	5000	0.3	11	2.2	8	TSSOP-14	LF147
BIF3140	JFET-input Operational Amplifiers	1	±15	15000	0.1	6	4.5	9	SOP-8	CA3140
BIF822	JFET-input Operational Amplifiers	2	±15	2000	0.04	2.4	1.9	3	SOP-8	AD822

Low-power Operational Amplifiers

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Slew rate (V/μs)	Package	Cross Reference
BIF151	Low-power Operational Amplifiers	1	5.5	3000	0.01	0.006	—	SOT23-5	—
BIF211	Low-power Operational Amplifiers	1	5.5	1500	0.02	0.001	—	SOT23-5	—
BIF511	Low-power Operational Amplifiers	1	3.3	50	1	0.001	—	SOT23-5	—
BIF881	Low-power Operational Amplifiers	1	10	3000	0.15	0.001	—	SOT23-5	—
BIF8821	Low-power Operational Amplifiers	1	5.5	2500	1	0.2	0.25	SOT23-5	—
BIF8822	Low-power Operational Amplifiers	2	5.5	2500	1	0.4	0.25	SOP-8	—

Power Amplifiers

Model / series	Function	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Output current (A)	Package	Cross Reference
BIF544	Power Amplifiers	70	10000	200	25	4	TO-263-5	OPA544
BIF548	Power Amplifiers	60	10000	500	20	3	TO-263-7	OPA548
BIF8421	Power Amplifiers	28	10000	10	5.5	0.4	SOP-8/TO-263-5	—

Precision Operational Amplifiers

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF07	Precision Operational Amplifiers	1	±15	200	80	5.7	0.6	0.3	SOP-8	OP07
BIF1221	Precision Operational Amplifiers	1	±24	600	0.6	0.5	1.1	0.8	SOT23-5	—

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF1222	Precision Operational Amplifiers	2	±24	600	0.6	1	1.1	0.8	SOP8	—
BIF1224	Precision Operational Amplifiers	4	±24	600	0.6	2	1.1	0.8	SOP14	—
BIF1241	Precision Operational Amplifiers	1	36	500	0.1	0.8	1	0.7	SOT23-5	—
BIF1531	Precision Operational Amplifiers	1	36	25	20	2.5	12	12	SOP-8/SOT23-5	—
BIF1532	Precision Operational Amplifiers	2	36	25	20	5	12	12	SOP-8	—
BIF200	Precision Operational Amplifiers	2	±15	75	5	2.2	—	0.15	SOP-8	OP200
BIF2037	Precision Operational Amplifiers	2	±15	300	10	3.8	1	0.8	SOP-8	OPA2227
BIF2177	Precision Operational Amplifiers	2	25	75	0.28	0.715	1.5	0.72	SOP8	—
BIF2277	Precision Operational Amplifiers	2	±15	100	2.8	2.2	1	0.8	SOP-8	OPA2277
BIF27	Precision Operational Amplifiers	1	±15	200	80	5.7	5	1.7	SOP-8	OP27
BIF3321	Precision Operational Amplifiers	1	10	500	0.7	1.36	20	22	SOT23-5/SOP-8	—
BIF3322	Precision Operational Amplifiers	2	10	500	0.7	2.72	20	22	SOP8	—
BIF3324	Precision Operational Amplifiers	4	10	500	0.7	5.44	20	22	TSSOP14	—
BIF37	Precision Operational Amplifiers	1	±15	75	40	4.6	45	11	SOP-8	OP37
BIF4177	Precision Operational Amplifiers	4	25	75	0.28	1.43	1.5	0.72	SOP14	—
BIF77	Precision Operational Amplifiers	1	±15	200	80	5.7	0.6	0.3	SOP-8	OP77
BIF8606	Precision Operational Amplifiers	1	5.5	100	0.01	1.5	22	9	SOP8	AD8606

Programmable-gain Amplifiers

Model / series	Function	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain accuracy (dB)	Gain scale factor (dB/V)	Package	Cross Reference
BIF603	Programmable-gain Amplifiers	±5	20000	500	17	1	40.6	SOP8	AD603

Rail-to-rail Operational Amplifiers

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF2340	Rail-to-rail Operational Amplifiers	2	5.5	500	0.5	3.1	10	6	SOP-8	OPA2340
BIF284	Rail-to-rail Operational Amplifiers	2	±15	2000	450	2	3.5	15	SOP-8	OP284
BIF311	Rail-to-rail Operational Amplifiers	1	5.5	5000	0.01	0.087	1	1	SOT23-5	—
BIF321	Rail-to-rail Operational Amplifiers	1	5.5	7000	250	0.17	1	1	SOP-8	LMV321
BIF324	Rail-to-rail Operational Amplifiers	4	5.5	7000	250	0.68	1	1	TSSOP-14	LMV324

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF340	Rail-to-rail Operational Amplifiers	1	5.5	500	0.5	1.55	10	6	SOP-8	OPA340
BIF358	Rail-to-rail Operational Amplifiers	2	5.5	7000	250	0.34	1	1	SOP-8	LMV358
BIF4340	Rail-to-rail Operational Amplifiers	4	5.5	500	0.5	6.2	10	6	TSSOP-14	OPA4340
BIF495	Rail-to-rail Operational Amplifiers	4	±15	2000	450	4	3.5	15	TSSOP-14	OP484
BIF601	Rail-to-rail Operational Amplifiers	1	5.5	3000	0.1	0.2	1	0.7	SOT23-5	—
BIF6142	Rail-to-rail Operational Amplifiers	2	±15	800	0.04	2.2	1.9	3	SOP-8	LM6142

Voltage / Frequency Converters

Model / series	Function	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Package	Cross Reference
BIF131	Voltage / Frequency Converters	±15	14000	300	4	SOP-8	LM131
BIF536	Voltage / Frequency Converters	±15	5000	60	3	SOP-14	AD536

Voltage Comparators

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Output high current (μA)	Output low voltage (mV)	Quiescent current (mA)	Package	Cross Reference
BIJ111	Voltage Comparators	1	±15	3000	0.05	1500	6	SOP-8	LM111
BIJ119	Voltage Comparators	2	±15	4000	10	400	11.5	SOP-8	LM119
BIJ139	Voltage Comparators	4	±15	5000	1	400	2	TSSOP-14	LM139
BIJ193	Voltage Comparators	2	±15	5000	1	400	1	SOP-8	LM193
BIJ2901	Voltage Comparators	4	±15	5000	1	400	2	TSSOP-14	LM2901
BIJ2903	Voltage Comparators	2	±15	5000	1	400	1	SOP-8	LM2903
BIJ331	Voltage Comparators	1	32	15000	—	400	0.1	SOT23-5	—
BIJ331A	Voltage Comparators	1	32	7500	—	400	0.3	SOT23-5	—
BIJ3501	Voltage Comparators	1	5.5	6000	—	180	2.4	SOP-8	—
BIJ5301	Voltage Comparators	1	5.5	6500	1	50	5	SOT23-5	—
BIJ701	Voltage Comparators	1	5.5	4000	—	1	0.001	SOT23-5	—
BIJ702	Voltage Comparators	2	5.5	4000	—	—	0.002	MSOP8	—
BIJ741	Voltage Comparators	1	5.5	4000	—	—	0.28	SOT23-5	—
BIJ941	Voltage Comparators	1	32	3000	—	1500	6	SOP-8	—

Zero-drift Operational Amplifiers

Model / series	Function	Channels	Supply voltage (V)	Input offset voltage (μV)	Input bias current (nA)	Supply current (mA)	Gain bandwidth (MHz)	Slew rate (V/μs)	Package	Cross Reference
BIF1511	Zero-drift Operational Amplifiers	1	48	30	3	0.16	1	0.56	SOT23-5	—
BIF1512	Zero-drift Operational Amplifiers	2	48	30	3	0.32	1	0.56	SOP8	—
BIF1514	Zero-drift Operational Amplifiers	4	48	30	3	0.64	1	0.56	SOP14	—
BIF1521	36 V single-channel zero-drift operational amplifier	1	36	30	1	1.6	6	5	SOP-8/SOT23-5	—
BIF1522	Zero-drift Operational Amplifiers	2	36	30	1	3.2	6	5	SOP-8	—
BIF501	Zero-drift Operational Amplifiers	1	5.5	60	5	3	15	7	SOT23-5	—
BIF571	Zero-drift Operational Amplifiers	1	5.5	45	2	1.8	15	5	SOT23-5	—
BIF591	Zero-drift Operational Amplifiers	1	5.5	50	1	2	3.3	2.5	SOT23-5	—
BIF8551	Single-channel zero-drift operational amplifier	1	5.5	15	1	0.29	2	0.8	SOP-8	AD8551
BIF8552	Dual-channel zero-drift operational amplifier	2	5.5	15	1	0.58	2	0.8	SOP-8	AD8552
BIF8554	Quad-channel zero-drift operational amplifier	4	5.5	15	1	2.32	2	0.8	TSSOP-14	AD8554

Data Converters

Analog-to-digital Converters

Model / series	Function	Channels	Resolution (bits)	SNR (dB)	INL	Maximum sample rate (MSPS)	Interface	Package	Cross Reference
BI1115PM1C	Analog-to-digital Converters	4	16	—	1LSB	0.002	I2C	QFN-10	ADS1115
BI1115PMC	4-channel, 16-bit ADC with I²C interface	4	16	—	1LSB	0.002	I2C	MSOP-10	ADS1115
BI1118PM1C	Analog-to-digital Converters	4	16	—	1LSB	0.002	SPI	QFN-10	ADS1118
BI1118PMC	4-channel, 16-bit ADC with SPI interface	4	16	—	1LSB	0.002	SPI	MSOP-10	ADS1118
BI1220PMC	4-channel, 24-bit ADC	4	24	—	6ppm	0.002	SPI	TSSOP-16	ADS1220
BI1258PMC	16-channel, 24-bit ADC	16	24	—	0.0003%FSR	0.125	SPI	QFN-48	ADS1258
BI4001PMC	Analog-to-digital Converters	1	16	96	0.4LSB	2	SPI	MSOP-10	AD4001
BI4003PMC	Analog-to-digital Converters	1	18	99	1LSB	2	SPI	MSOP-10	AD4003
BI4020PMC	Single-channel, 20-bit ADC	1	20	100.5	3ppm	1.8	SPI	MSOP-10	AD4020
BI7151-2PMC	Analog-to-digital Converters	2	24	—	1LSB	0.25	SPI	TSSOP-24	AD7175-2
BI7606PMC	8-channel, 16-bit ADC	8	16	92	±1LSB	0.2	SPI, Parallel	LQFP64	AD7606
BI7616PMC	16-channel, 16-bit ADC	16	16	90	±1LSB	IMSPS	SPI, Parallel	LQFP80	AD7616
BI7626PMC	Analog-to-digital Converters	4	16	91.5	2LSB	4	SPI	QFN-24	AD7380
BI7689PMC	8-channel, 16-bit ADC	8	16	92.7	1.5LSB	0.25	SPI	QFN-20	AD7689
BI7699PMC	8-channel, 16-bit ADC	8	16	91.4	1.5LSB	0.5	SPI	QFN-20	AD7699
BI7980PMC	Single-channel, 16-bit ADC	1	16	91.4	0.6LSB	1	SPI	MSOP-10	AD7980
BI7982PMC	Single-channel, 18-bit ADC	1	18	97.3	0.6LSB	IMSPS	SPI	MSOP-10	AD7982
BI8354PMC	Analog-to-digital Converters	2	16	90	2LSB	2	SPI	TSSOP-16	ADS8354
BI9643PMC	Analog-to-digital Converters	2	14	71	1.9LSB	250	LVDS	QFN-64	AD9643
BI9680PMC	Analog-to-digital Converters	2	14	67.2	2.3LSB	1GSPS	204B	QFN-64	AD9680

Digital Potentiometers

Model / series	Function	Input voltage (V)	DC drive capability (A)	Features	Package	Cross Reference
BID52PM1C	Digital Potentiometers	~6V	0.5	Dual-channel supply modulation; typical supply 5 V; output impedance 0.7 Ω per channel; shutdown current $\leq$ 1 mA; output rise time 5 ns; propagation delay 12 ns; enable function; power-amplifier supply modulation.	DFN-10	—
BID52PMC	Digital Potentiometers	~6V	0.5	Dual-channel supply modulation; typical supply 5 V; output impedance 0.7 Ω per channel; shutdown current $\leq$ 1 mA; output rise time 5 ns; propagation delay 12 ns; enable function; power-amplifier supply modulation.	TSSOP-10	—
BID54PM1C	Digital Potentiometers	~6V	0.5	Four-channel supply modulation; typical supply 5 V; output impedance 0.7 Ω per channel; shutdown current $\leq$ 1 mA; output rise time 5 ns; propagation delay 12 ns; enable function; power-amplifier supply modulation.	DFN-20	—
BID54PMC	Digital Potentiometers	~6V	0.5	Four-channel supply modulation; typical supply 5 V; output impedance 0.7 Ω per channel; shutdown current $\leq$ 1 mA; output rise time 5 ns; propagation delay 12 ns; enable function; power-amplifier supply modulation.	TSSOP-20	—

Digital-to-analog Converters

Model / series	Function	Channels	Resolution (bits)	SNR (dB)	INL	Maximum sample rate (MSPS)	Interface	Package	Cross Reference
BI5420PM1C	Digital-to-analog Converters	1	16	85	1LSB	0.1	SPI	QFN-24	AD5420
BI5420PMC	16-bit control-output DAC	1	16	85	1LSB	0.1	SPI	TSSOP-24	AD5420
BI5422PM1C	Digital-to-analog Converters	1	16	88	1LSB	0.1	SPI	QFN-24	AD5422
BI5422PMC	16-bit control-output DAC	1	16	88	1LSB	0.1	SPI	TSSOP-24	AD5422
BI5542PMC	16-bit DAC	1	16	94	0.5LSB	IMSPS	SPI	SOP-14	AD5542
BI7547PMC	Digital-to-analog Converters	2	12	80	$\pm$ 3LSB	0.666	Parallel	SOIC-24	AD7547
BI9301PM1C	Digital-to-analog Converters	1	16	92	0.5LSB	IMSPS	SPI	MSOP-8	LTC2641-16
BI9301PM2C	Digital-to-analog Converters	1	16	92	0.5LSB	1	SPI	DFN-8	LTC2641-16
BI9301PMC	16-bit DAC	1	16	92	0.5LSB	IMSPS	SPI	SOP-8	LTC2641-16

Resolver-to-digital Converters

Model / series	Function	Supply voltage (V)	Interface	Resolution (bits)	Tracking rate (rps)	Package	Cross Reference
BI2S1210	Resolver-to-digital Converters	5	Parallel+SPI	10/12/14/16	3125	LQFP48	AD2S1210

DC/DC & Power Control

Boost Converters

Model / series	Function	Rectification	Input voltage (V)	Output voltage (V)	Output current (A)	Quiescent current (mA)	Switching frequency (kHz)	Efficiency (%)	Package	Cross Reference
BIW6033PMC	Boost Converters	Asynchronous	0.8–3.3	3.3	2	0.02	400	90	SOT-89-3	—
BIW6330APMC	Boost Converters	Asynchronous	6–28	VIN~80V(VFB=0.4V)	5	0.32	120	95	ESOP-8	—
BIW8140PMC	Boost Converters	Asynchronous	1.8–5.5	VIN~30V(VFB=1.23V)	0.4	0.02	1000	90	SOT-23-5	—
BIW8142PM1C	Boost Converters	Asynchronous	2.5–24	VIN~28V(VFB=0.6V)	3	0.25	1200	90	SOT-23-6	—

Buck Converters

Model / series	Function	Rectification	Input voltage (V)	Output voltage (V)	Output current (A)	Quiescent current (mA)	Switching frequency (kHz)	Efficiency (%)	Package	Cross Reference
BIW29530PMC	Buck Converters	Synchronous	4.75–18	ADJ(VFB=0.925V)	3	1.3	370	95	ESOP-8	—
BIW29531PMC	Buck Converters	Synchronous	4.2–16	ADJ(VFB=0.923V)	4	0.5	500	95	ESOP-8	—
BIW54302PMC	28 V input step-down DC/DC converter	Synchronous	4.5–28	ADJ(VFB=0.6V)	3	0.14	500	90	TSOT23-6	—
BIW54406PMC	Buck Converters	Asynchronous	4.2–40	ADJ(VFB=0.794V)	0.6	0.2	1800	90	SOT-23-6	—
BIW6018PMC	Buck Converters	Synchronous	4–18	ADJ(VFB=0.6V)	7	1.5	100–1600	95	QFN-16	—
BIW6341PMC	Buck Converters	Synchronous	2.5–5.5	ADJ(VFB=0.6V)	3.5	0.035	1000	90	SOT-23-5	—
BIW6411PMC	Buck Converters	Synchronous	2.5–6	ADJ(VFB=0.6V)	2	0.04	1000	95	SOT-23-5	—
BIW6639PMC	60 V input step-down DC/DC converter	Asynchronous	3.8–60	ADJ(VFB=0.8V)	1.5	0.19	100–1200	95	EMSOP-10	—
BIW8128PMC	Buck Converters	Synchronous	2.6–5.5	ADJ(VFB=0.6V)	1.5	0.08	2000	97	SOT-23-5	—

Charge Pumps

Model / series	Function	Input voltage (V)	Output voltage (V)	Output current (A)	Quiescent current (mA)	Switching frequency (kHz)	Efficiency (%)	Package	Cross Reference
BIW2301PMC	Charge Pumps	1.4–5.5	-VIN	0.06	0.15	19	95	SOT-23-5	—
BIW2776PMC	Charge Pumps	1.4–5.5	-VIN	0.25	1.5	950	90	SOT-23-6	—
BIW3209PMC	Charge Pumps	3–18	-VIN	0.1	1.4	120–1250	90	SOP-8	—
BIW660PMC	Charge Pumps	1.5–5.5	-VIN	0.1	0.5	5	98	SOP-8	—
BIW7660PMC	Charge Pumps	1.5–5.5	-VIN	0.1	0.5	5	98	SOP-8	—

PWM Controllers

Model / series	Function	Control mode	Input voltage (V)	Start-up threshold (V)	Shutdown threshold (V)	Maximum duty cycle (%)	Switching frequency (kHz)	Output drive current (A)	Package	Cross Reference
BIW1525APMC	PWM Controllers	Voltage mode	~35V	7	6.5	49	100–500	0.5	SOP-16 (wide body)	UC1525
BIW1842PMC	PWM Controllers	Current mode	~30V	16	10	100	~500kHz	±1A	SOP-8	UC1842
BIW1843PMC	PWM Controllers	Current mode	~30V	9	8.2	100	~500kHz	±1A	SOP-8	UC1843
BIW1844PMC	PWM Controllers	Current mode	~30V	16	10	50	~500kHz	±1A	SOP-8	UC1844
BIW1845PMC	PWM Controllers	Current mode	~30V	9	7.5	50	~500kHz	±1A	SOP-8	UC1845
BIW1846PMC	PWM Controllers	Current mode	~30V	—	—	Adjustable	~1MHz	±2A	SOP-16 (narrow body)	UC1846
BIW28C45PMC	PWM Controllers	Current mode	~30V	9	7.5	50	~500kHz	±1A	SOP-8	UCC28C45
BIW494PMC	PWM Controllers	Voltage mode	~40V	—	—	96%(single-ended) / 48%(push-pull)	~300kHz	200mA(per channel)	SOP-16 (narrow body)	TL494

Power Controllers

Model / series	Function	Operating voltage (V)	MOSFET control	Features	Package	Cross Reference
BIW5360PMC	Reverse-polarity and reverse-current protection controller	4.8–65	External N-channel MOSFET	Shutdown current 1.5 μA; peak turn-off current 2.3 A; fast reverse-current turn-off within 0.75 μs; enable and reverse-polarity protection.	TSOT-23-6	LM74700

Drivers

Darlington Drivers

Model / series	Function	Channels	Voltage rating (V)	Current per channel (A)	Logic compatibility	Protection	Output structure	Package	Cross Reference
BID2003PMC	Darlington Drivers	7	50	500mA(continuous) / 600mA(peak)	TTL/CMOS level	Integrated clamp diode	Open collector(external pull-up resistor required)	SOP-16 (narrow body)	ULN2003
BID2803PMC	Darlington Drivers	8	50	500mA(continuous) / 600mA(peak)	TTL/CMOS level	Integrated clamp diode	Open collector(external pull-up resistor required)	SOP-18	ULN2803

Intelligent Power Modules

Model / series	Function	Description	Voltage rating (unit not stated)	Current rating (unit not stated)	On resistance	Forward current (unit not stated)	Forward voltage (unit not stated)	Package	Cross Reference
BI03SU60PM8	Intelligent Power Modules	Half-bridge IPM MOSFET	600	3	2.8@2.5A	3	0.9	SOP-12	—
BI04SZ50E2PM15	Intelligent Power Modules	Half-bridge IPM MOSFET	500	4	2.1@2A	4	0.9	ESOP-9	—
BI05DT506PM16	Intelligent Power Modules	Full-bridge IPM MOSFET	500	5	1.3@2.5A	5	0.9	SOP-23	—
BI05SZ50E2PM15	Intelligent Power Modules	Half-bridge IPM MOSFET	500	5	2.0@2.5A	5	0.9	ESOP-9	—
BI06FB60PM16 Listing 1	Intelligent Power Modules	Full-bridge IPM IGBT	600	6	—	6	2.5	SOP-23	—
BI06FB60PM16 Listing 2	Intelligent Power Modules	Full-bridge IPM IGBT	600	6	—	5	2.2	SOP-23	—
BI07DT606PM16	Intelligent Power Modules	Full-bridge IPM MOSFET	600	7	1.1@3.5A	7	1.4	SOP-23	—
BI07SU60E2PM8	Intelligent Power Modules	Half-bridge IPM MOSFET	600	7	1.5@3.5A	7	0.9	SOP-12	—
BI07SZ50E2PM15	Intelligent Power Modules	Half-bridge IPM MOSFET	500	7	1.7@3.5A	7	1.0	ESOP-9	—
BI2DT506PM16	Intelligent Power Modules	Full-bridge IPM MOSFET	500	2	3.1@1.5A	3	0.9	SOP-23	—
BI2DT606PM16	Intelligent Power Modules	Full-bridge IPM MOSFET	600	2	2.7@1.5A	3	0.9	SOP-23	—
BI3DT502PM15	Intelligent Power Modules	Half-bridge IPM MOSFET	500	3	3.1@1.5A	3	1.0	ESOP-9	—
BI3DT502PM8	Intelligent Power Modules	Half-bridge IPM MOSFET	500	3	3.1@1.5A	3	0.9	SOP-12	—
BI3DT502QTA1	Intelligent Power Modules	Half-bridge IPM MOSFET	500	3	3.1@1.5A	3	0.9	QFN 7*7-25L	—
BI4DT502PM8	Intelligent Power Modules	Half-bridge IPM MOSFET	500	4	2.1@2A	4	0.9	SOP-12	—
BI4DT502QTA1	Intelligent Power Modules	Half-bridge IPM MOSFET	500	4	2.1@2.5A	4	0.9	QFN 7*7-25L	—
BI4DT602SPM8	Intelligent Power Modules	Half-bridge IPM MOSFET	600	4	2.0@2.5A	4	1.1	SOP-12	—
BI5DT502PM8	Intelligent Power Modules	Half-bridge IPM MOSFET	500	5	1.7@2.5A	5	1.0	SOP-12	—
BI5DT502QTA1	Intelligent Power Modules	Half-bridge IPM MOSFET	500	5	1.7@3A	5	1.0	QFN 7*7-25L	—

Model / series	Function	Description	Voltage rating (unit not stated)	Current rating (unit not stated)	On resistance	Forward current (unit not stated)	Forward voltage (unit not stated)	Package	Cross Reference
BI5DT506PM16	Intelligent Power Modules	Full-bridge IPM MOSFET	500	5	1.5@1A	5	0.9	SOP-23	—
BI5DT602SPM8 Listing 1	Intelligent Power Modules	Half-bridge IPM MOSFET	600	5	1.8@2.5A	5	1.0	SOP-12	—
BI5DT602SPM8 Listing 2	Intelligent Power Modules	Half-bridge IPM MOSFET	600	5	1.8@2.5A	5	1.2	SOP-12	—
BI7DT502PM8	Intelligent Power Modules	Half-bridge IPM MOSFET	500	7	1.2@3.5A	7	0.9	SOP-12	—
BI7DT502QTA1	Intelligent Power Modules	Half-bridge IPM MOSFET	500	7	1.2@3.5A	7	0.9	QFN 7*7-25L	—

Isolated Gate Drivers

Model / series	Function	Reverse input voltage (V)	Forward input current (mA)	Supply voltage (V)	Output voltage (V)	Transient peak input current (mA)	Forward voltage (V)	Reverse voltage (V)	Short-circuit output current	Open-circuit voltage	Isolation voltage	Package	Cross Reference
BIGD3120PJ	Isolated gate driver	5	25	35	35	50	—	—	—	—	—	PDIP-8	HCPL-3120
BIGM1271PM	Photovoltaic MOSFET driver	—	—	—	—	—	<1.6	>5	15 µA typ (IF=10 mA)	5 V min	3750 V DC	SOP-4	VOM1271 / TLP3906 / WOM1283

Motor Drivers

Model / series	Function	Motor type	Supply voltage (V)	Output current (A)	Core functions	Package	Cross Reference
BIW33035PMC	Motor Drivers	Brushless DC	~40V	100mA(peak drive current)	Three- or four-phase brushless DC motor control; H-bridge drive, rotor-position decoder, temperature-compensated reference and Hall-sensor feedback.	SOP-24	MC33035
BIW33039PMC	Motor Drivers	Brushless DC	5.5–9	20mA(control signal)	Closed-loop speed-control adapter providing speed feedback; used with a controller such as BIW33035PMC.	SOP-8	MC33035

Non-isolated Gate Drivers

Model / series	Function	Driver type	Power switch	Voltage rating (V)	Supply voltage (V)	Output current (A)	Rise / fall time	Rise / fall propagation delay	Delay matching	Dead time (µs)	Output drive resistance	Channels	Peak output current (A)	Supply current (mA)	Package	Cross Reference
BID1421PMC	Low-side gate driver with 4 A peak drive current	Low-side driver	IGBT/MOSFET	—	4.5–20	4A(source)/4A(sink)	6ns/6ns	16ns/16ns	—	—	—	—	—	—	SOT-23-5	UCC27517
BID27511PMC	Low-side gate driver	Low-side driver	IGBT/MOSFET	—	4.5–20	4A(source)/5A(sink)	7ns/5ns	18ns/18ns	—	—	—	—	—	—	SOT-23-6	UCC27511
BID4080PMC	Non-isolated Gate Drivers	Full-bridge driver	MOSFET	80	8–15	2.6A(source)/2.4A(sink)	10ns/10ns	70ns/50ns	30ns(max)	—	—	—	—	—	SOP-20	HIP4080

Model / series	Function	Driver type	Power switch	Voltage rating (V)	Supply voltage (V)	Output current (A)	Rise / fall time	Rise / fall propagation delay	Delay matching	Dead time (μs)	Output drive resistance	Channels	Peak output current (A)	Supply current (mA)	Package	Cross Reference
BID4086PMC	Non-isolated Gate Drivers	Three-phase driver	MOSFET	80	7–15	1.25A(peak turn-off)	20ns/10ns	65ns/75ns	—	0.5–4.5	—	—	—	—	SOP-24	HIP4086
BID4101PMC	High-side MOSFET gate driver	High-side driver	MOSFET	—	5.5–60	—	13ns/90ns	35ns/35ns	—	—	2.2 Ω (pull-up) / 1 Ω (pull-down)	—	—	—	ETSSOP-16	LTC7003
BID4420	Single-channel MOSFET driver with 6 A peak drive current	—	—	—	4.5–18	—	—	—	—	—	—	1	6	1.5	SOP8/TSSOP8	MIC4420 / MAX4420
BID4421	Non-isolated Gate Drivers	—	—	—	4.5–18	—	—	—	—	—	—	1	9	1.5	SOP8/TSSOP8	MIC4421
BID4422	Non-isolated Gate Drivers	—	—	—	4.5–18	—	—	—	—	—	—	1	9	1.5	SOP8/TSSOP8	MIC4422
BID4423	Non-isolated Gate Drivers	—	—	—	4.5–18	—	—	—	—	—	—	2	3	3.5	SOP8/TSSOP8	MIC4423
BID4424	Dual-channel MOSFET driver with 3 A peak drive current	—	—	—	4.5–18	—	—	—	—	—	—	2	3	3.5	SOP8/TSSOP8	MIC4424
BID4425	Non-isolated Gate Drivers	—	—	—	4.5–18	—	—	—	—	—	—	2	3	3.5	SOP8/TSSOP8	MIC4425
BID4426	Dual-channel MOSFET driver	—	—	—	4.5–18	—	—	—	—	—	—	2	1.5	8	SOP8/TSSOP8	MIC4426 / MAX4426
BID4427	Dual-channel MOSFET driver with 1.5 A peak drive current	—	—	—	4.5–18	—	—	—	—	—	—	2	1.5	8	SOP8/TSSOP8	MIC4427 / MAX4427
BID4428	Non-isolated Gate Drivers	—	—	—	4.5–18	—	—	—	—	—	—	2	1.5	8	SOP8/TSSOP8	MIC4428 / MAX4428
BID4429	Non-isolated Gate Drivers	—	—	—	4.5–18	—	—	—	—	—	—	1	6	1.5	SOP8/TSSOP8	MIC4429 / MAX4429
BID4451	Non-isolated Gate Drivers	—	—	—	4.5–18	—	—	—	—	—	—	1	12	3	SOP8/TSSOP8	MIC4451
BID4452	Non-isolated Gate Drivers	—	—	—	4.5–18	—	—	—	—	—	—	1	12	3	SOP8/TSSOP8	MIC4452
BIDX614PMC	Low-side gate driver with 14 A peak drive current	Low-side driver	IGBT/MOSFET	—	4.5–25	14A(source)/(sink)	47ns/38ns	80ns/58ns	—	—	—	—	—	—	SOP-8	IXDX614
BIMD1401PMC	Non-isolated Gate Drivers	Negative-bias driver	IGBT/MOSFET	—	19–25	4A(source)/4A(sink)	13ns/13ns	45ns/45ns	1	—	—	—	—	—	SOP-8	UCC27717
BIMD2101PMC	Half-bridge gate driver	Half-bridge driver	IGBT/MOSFET	600	10–20	130mA(source)/270 mA(sink)	100ns/50ns	160ns/150ns	50ns(max)	—	—	—	—	—	SOP-8	IR2101
BIMD2103PMC	Non-isolated Gate Drivers	Half-bridge driver	IGBT/MOSFET	600	10–20	130mA(source)/270 mA(sink)	100ns/50ns	680ns/150ns	60ns(max)	—	—	—	—	—	SOP-8	IR2103
BIMD2104PMC	Non-isolated Gate Drivers	Half-bridge driver	IGBT/MOSFET	600	10–20	130mA(source)/270 mA(sink)	100ns/50ns	680ns/150ns	60ns(max)	—	—	—	—	—	SOP-8	IR2104

Model / series	Function	Driver type	Power switch	Voltage rating (V)	Supply voltage (V)	Output current (A)	Rise / fall time	Rise / fall propagation delay	Delay matching	Dead time (μs)	Output drive resistance	Channels	Peak output current (A)	Supply current (mA)	Package	Cross Reference
BIMD2110PM1CC	Non-isolated Gate Drivers	Half-bridge driver	IGBT/MOSFET	500	10–20	2A(source)/2A(sink)	25ns/17ns	120ns/94ns	10ns(max)	—	—	—	—	—	SOP-16 (narrow body)	IR2110
BIMD2110PMCC	Half-bridge gate driver	Half-bridge driver	IGBT/MOSFET	500	10–20	2A(source)/2A(sink)	25ns/17ns	120ns/94ns	10ns(max)	—	—	—	—	—	SOP-16 (wide body)	IR2110
BIMD2136PMC	Non-isolated Gate Drivers	Three-phase driver	IGBT/MOSFET	600	10–20	200mA(source)/350mA(sink)	125ns/50ns	530ns/530ns	50ns(max)	—	—	—	—	—	SOP-28	IR2136

Interface

CAN Transceivers

Model / series	Function	Channels	Supply voltage (V)	Fault-tolerant voltage (V)	Common-mode range (V)	Data rate (Mbps)	ESD (kV)	Package	Cross Reference
BI1042	CAN Transceivers	1	4.5–5.5	-70–70	-30–30	5	8	SOP14/TSSOP14	MAX1042
BI1043	CAN transceiver	1	4.5–5.5	-58–58	-30–30	5	—	SOP14/TSSOP14	TJA1043
BI1044	CAN transceiver	1	4.5–5.5	-40–40	-12–12	5	8	SOP8/TSSOP8	TJA1044
BI1050	CAN Transceivers	1	4.5–5.5	-40–40	-12–12	1	8	SOP8/TSSOP8	TJA1050
BI1051	CAN transceiver	1	4.5–5.5	-70–70	-30–30	5	8	SOP8/TSSOP8	TJA1051
BI1057	CAN Transceivers	1	4.5–5.5	-40–40	-27–27	5	8	SOP14/TSSOP14	TJA1057
BI1145	CAN transceiver	1	4.5–5.5	-58–58	-40–40	5	—	SOP14/TSSOP14	TJA1145
BI3051	CAN Transceivers	1	3.3	-36–36	-7–12	1	12	SOP8/TSSOP8	MAX3051
BI65HVD230	CAN Transceivers	1	3–3.6	-16–16	-2–7	1	15	SOP8/TSSOP8	SN65HVD230
BI65HVD231	CAN Transceivers	1	3–3.6	-16–16	-7–12	1	16	SOP8/TSSOP8	SN65HVD231
BI65HVD232	CAN Transceivers	1	3–3.6	-16–16	-7–12	1	16	SOP8/TSSOP8	SN65HVD232
BI65HVD233	CAN Transceivers	1	3–3.6	-36–36	-7–12	1	12	SOP8/TSSOP8	SN65HVD233
BI65HVD234	CAN Transceivers	1	3.3	-36–36	-7–12	1	16	SOP8/TSSOP8	SN65HVD234
BI65HVD235	CAN Transceivers	1	3–3.6	-36–36	-7–12	1	12	SOP8/TSSOP8	SN65HVD235
BI82C250	CAN Transceivers	1	4.5–5.5	-18–18	-7–12	1	8	SOP8/TSSOP8	PAC82C250T
BI82C251	CAN Transceivers	1	4.5–5.5	-40–40	-7–12	1	8	SOP8/TSSOP8	PAC82C250T

Line Drivers & Receivers

Model / series	Function	Channels	Supply voltage (V)	Input voltage (V)	Supply current (mA)	Package	Cross Reference
BI26C31	Line Drivers & Receivers	4	4.5–5.5	0–5.5	2.1	SOP16/TSSOP16	AM26C31
BI26C32	Line Drivers & Receivers	4	4.5–5.5	0–5.5	25	SOP16/TSSOP16	AM26C32
BI26LS31	Line Drivers & Receivers	4	4.5–5.5	0–5.5	60	SOP16/TSSOP16	AM26LS31
BI26LS32	Line Drivers & Receivers	4	4.5–5.5	0–5.5	70	SOP16/TSSOP16	AM26LS32
BI26LV31	Line Drivers & Receivers	4	3–3.6	2–4	0.125	SOP16/TSSOP16	AM26LV31
BI26LV32	Line Drivers & Receivers	4	3–3.6	0–3.6	20	SOP16/TSSOP16	AM26LV32
BI90C031	Line Drivers & Receivers	4	4.5–5.5	0–5.5	6.5	SOP16/TSSOP16	DS90C031

Model / series	Function	Channels	Supply voltage (V)	Input voltage (V)	Supply current (mA)	Package	Cross Reference
BI90C032	Line Drivers & Receivers	4	4.5–5.5	0–5.5	11	SOP16/TSSOP16	DS90C032
BIAHC244	Line Drivers & Receivers	8	2–5.5	0–5.5	0.04	SOP20 / TSSOP20	SN54AHC244
BIAHC541	Line Drivers & Receivers	8	2–5.5	0–5.5	0.04	SOP20 / TSSOP20	SN54AHC541
BIALS244	Line Drivers & Receivers	8	4.5–5.5	0–5.5	29	SOP20/TSSOP20	54ALS244
BIHCT244	Line Drivers & Receivers	8	4.5–5.5	0–5.5	0.16	SOP20 / TSSOP20	54HCT244A
BIHCT541	Line Drivers & Receivers	8	4.5–5.5	0–5.5	0.16	SOP20 / TSSOP20	54HCT541
BILS244	Line Drivers & Receivers	8	4.5–5.5	0–5.5	54	SOP20/TSSOP20	54LS244
BILVC541	Line Drivers & Receivers	8	1.2–3.6	0–3.6	0.01	SOP20 / TSSOP20	SN54LVC541A

RS-232 / RS-422 / RS-485

Model / series	Function	Supply voltage (V)	Data rate (Mbps)	ESD (kV)	Common-mode range (V)	Quiescent current (mA)	Package	Cross Reference
BI202	RS-232 / RS-422 / RS-485	5	0.096	15	±30	5	SOP16/TSSOP16	MAX202
BI232	RS-232 / RS-422 / RS-485	5	0.096	15	±25	2	SOP16/TSSOP16	MAX232
BI3232	RS-232 / RS-422 / RS-485	3.3–5	0.096	15	±25	2	SOP16/TSSOP16	MAX3232
BI3485	RS-485 transceiver	3.3	12	—	-7–12	0.5	SOP8/TSSOP8	AMT0114B / MAX3485
BI3490	RS-232 / RS-422 / RS-485	3–5.5	14	15	-7–12	0.24	SOP8/TSSOP8	MAX3490
BI3491	RS-232 / RS-422 / RS-485	4.5–5.5	16	15	-7–12	0.4	SOP8/TSSOP8	MAX3491
BI485	RS-232 / RS-422 / RS-485	5	0.5	15	-7–12	0.18	SOP8/TSSOP8	ISO485
BI490	RS-232 / RS-422 / RS-485	5	12	15	-7–12	0.22	SOP8/TSSOP8	AMT0113B / MAX490
BI65HVD08	RS-485 transceiver	3.3–5	10	10	-7–12	0.2	SOP8/TSSOP8	SN65HVD08DR
BI65HVD75	RS-485 transceiver	3.3–5	20	15	-7–12	0.4	SOP8/TSSOP8	SN55HVD75DRBREP

Isolation

Digital Isolators

Model / series	Function	Channels	Supply voltage (V)	Data rate (Mbps)	Common-mode transient immunity (kV/μs)	Package	Cross Reference
BI1200/1PSH/L	Digital Isolators	2	2.5–5.5	150	50	SOIC-8	ADUM2200 / 1 ADUM2210 / 1 / ISO7521 / HCPL-9030 / 1
BI1400/1/2PSH/L	Digital Isolators	4	2.5–5.5	150	50	SOIC-16	ADUM2400 / 1 / 2 / ADUM4400 / 1 / 2 / ISO7140 / 1 / 2 / ISO7240 / 1 / 2 / ISO7640 / 1 / 2
BI1600/1/2/3PSH/L	Digital Isolators	6	2.5–5.5	150	50	SOIC-16	ISO7760 / 1 / 2 / 3 / SI866X

General-purpose Optocouplers

Model / series	Function	Forward voltage (V)	Forward current (A)	CTR (%)	Collector current (A)	V(BR)CEO (V)	VCE(sat) (V)	Package	Cross Reference
BIG1105PM	General-purpose Optocouplers	<1.3	<0.05	>50	<0.15	>80	<0.4	SO-4	PS2705-1 / EL814
BIT127P	General-purpose Optocouplers	<1.5	<0.05	>1000	<0.15	>300	<1.2	SO-4	GH127 / TLP127
BIT185P	General-purpose Optocouplers	≤1.5	<0.05	>80	≤0.05	>80	<0.3	SO-4	GH181 / TLP181 / PS2701-1 / TLP185
BIT281P-1	General-purpose Optocouplers	<1.5	<0.05	>100	<0.05	>100	<0.3	SOP-4	GH281 / TLP281
BIT281P-2	General-purpose Optocouplers	≤1.5	<0.05	>80	≤0.05	>80	<0.3	SO-8	GH281-2 / PS2701-2
BIT281P-4	General-purpose Optocouplers	≤1.5	<0.05	>80	≤0.05	>80	<0.3	SO-16	GH281-4 / TLP281-4 / PS2701-4 / PS2801-4
BIT5010PJ	General-purpose Optocouplers	<1.5	<0.05	>600	<0.15	>300	<1.5	PDIP-6	KP5010
BIT521P	General-purpose Optocouplers	<1.5	<0.05	>60	<0.05	>60	<0.3	PDIP-4	GH302-1 / TLP521-1 / TLP621-1 / TLP624
BIT521P-1	General-purpose Optocouplers	<1.5	<0.05	>60	<0.05	>60	<0.3	SMD-4	GH302-1 / TLP521-1 / TLP621-1 / TLP624
BIT521P-2	General-purpose Optocouplers	<1.5	<0.05	>60	<0.05	>60	<0.3	PDIP-8	GH302-2 / TLP521-2 / TLP624-2 / TLP621-2 / TLP629-2 / TLP628-2
BIT521P-4	General-purpose Optocouplers	<1.5	<0.05	>60	<0.05	>60	<0.3	PDIP-16	GH302-4 / TLP521-4 / TLP629-4 / TLP621-4 / TLP624-4 / TLP628-4

High-speed Optocouplers

Model / series	Function	Channels	Supply voltage (V)	Output voltage (V)	Output current (A)	CTR (%)	Forward voltage (V)	Data rate (Mbps)	Package	Cross Reference
BIC0600P	High-speed Optocouplers	1	<7	<7	<0.05	>100	<1.75	10	SO-8	GH0611 / GH0600 / HCPL-0600 / HCPL-M611 / HCPL-0601 / HCPL-0611 / HCPL-M600 / HCPL-M601
BIC0631P	High-speed Optocouplers	2	<7	<7	<0.05	>100	<1.75	10	SO-8	GH0630 / GH0631 / HCPL-0630 / HCPL-0631
BIC5601P	High-speed Optocouplers	1	<7	<7	<0.05	>100	<1.75	10	SOIC-8	GH5601 / GH137 / 6N137 / HCPL-5601 / HCPL-910
BIC5631P	High-speed Optocouplers	2	<7	<7	<0.05	>100	<1.75	10	SOIC-8	GH5631 / GH137-2 / GH2631 / HCPL-5631 / HCPL-2631
BIG501PM	High-speed Optocouplers	1	<30	<20	<0.008	20–50	<1.8	—	SO-5	PS8101 / TLP113 / TLP2309

Isolated Amplifiers

Model / series	Function	Supply voltage (V)	Input current (mA)	Input voltage (V)	Initial fixed gain	Analog output voltage	Analog input voltage	Common-mode transient immunity (kV/μs)	Differential input range (mV)	Package	Cross Reference
BIGF1300PM	Isolated current sensing	-0.5–6.5	±10	(GND1–6) V to 6.5 V	8.2	(GND2–0.5) V to (VDD2+0.5) V	—	—	—	SOIC8 (wide body)	AMC1300
BIGF1311PM	Isolated voltage sensing	-0.3–6.5	±10	—	1	—	(GND1–6) V to (VDD1+0.5) V	±150	—	WB-SOIC-8	AMC1311
BIGF7800PU	Isolation amplifier	3.3 and 5	—	—	8	—	—	±150	±250	DUB-8	ACPL-7800

Isolated Transceivers

Model / series	Function	Interface	Supply voltage (V)	Control-pin voltage	Bus-side input voltage (V)	Output current (A)	I/O signal voltage	Package	Cross Reference
BI83086PMC	Isolated RS-422/RS-485 transceiver	Full-duplex RS-422 / RS-485	-0.5–6	–0.5 V to (VCC1+0.5) V	±15	±10 mA	—	SOIC-16	GL2941 / NSI83086
BIGR3082P	Isolated Transceivers	Half-duplex RS-422	-0.5–6	—	—	±20 mA	–0.5 V to (VCCA+0.5) V	SOIC-16	ISO3082DW

Isolators with DC/DC

Model / series	Function	Channels	Supply voltage (V)	Data rate (Mbps)	Common-mode transient immunity (kV/μs)	Package	Cross Reference
BIGD5401PMH	Isolators with DC/DC	4	2.5–5.5	100	150	SOIC-16	ADUM5401

I²C Isolators

Model / series	Function	Supply voltage (V)	I/O signal voltage	Maximum frequency (MHz)	Common-mode transient immunity (kV/µs)	Package	Cross Reference
BIGD1250PM	Bidirectional I²C isolator	-0.5–7	5 V recommended	1	±100	SOIC-8	ADUM1250

Miniature Isolation Devices

Model / series	Function	Forward voltage (V)	Short-circuit output current	Open-circuit voltage	Output circuits	Output current (A)	Output voltage (V)	Forward current (A)	CTR (%)	Collector current (A)	V(BR)CEO (V)	VCE(sat) (V)	Package	Cross Reference
BIGM1012PM	Miniature Isolation Devices	≤2.5	15 µA typ (IF=10 mA)	12 V min	—	—	—	—	—	—	—	—	DFN4	—
BIGM1050PM	Miniature Isolation Devices	<2.5	15 µA typ (IF=10 mA)	7 V min	—	—	—	—	—	—	—	—	DFN4	—
BISR221PM	Miniature Isolation Devices	—	—	—	1H	±0.2 A	±60 V	—	—	—	—	—	DFN4	—
BIT102P	Miniature Isolation Devices	<1.6	—	—	—	—	—	<0.05	>100	<0.05	>70	<0.3	DFN4	—

PhotoMOS Relays

Model / series	Function	Output direction	Output circuits	Output current (A)	Output voltage (V)	Package	Cross Reference
BIG1611PJ	Optically isolated MOS relay for load control	Bidirectional	1H/1Dchangeover	±2.5A/5A	60	SMD-6/DIP-6	ASSR-1611
BIG1611PJA	PhotoMOS Relays	Bidirectional	1H/1Dchangeover	±2.5A/5A	60	SMD-6/DIP-6	ASSR-1611
BISR4XXPJ/PE	PhotoMOS Relays	Bidirectional	1H	—	—	PDIP-4/SMD-4	EL406A / EL425A / EL440A / EL460A
BISRV21XPJ/PE	PhotoMOS Relays	Bidirectional	1H	—	—	PDIP-6/SMD-6	AQV212(A) / AQV215(A) / AQV217(A) / AQV210(A) / AQV214(A) / AQV216(A) / AQV214H(A)
BISRW21XPJ/PE	PhotoMOS Relays	Bidirectional	2H	—	—	PDIP-8/SMD-8	AQW212 / AQW215 / AQW217 / AQW210 / AQW214 / AQW216
BISRY21XPM	PhotoMOS Relays	Bidirectional	1H	—	—	SOP-4	AQY212S / AQY215S / AQY210S / AQY214S

Triac-output Optocouplers

Model / series	Function	Forward voltage (V)	Reverse voltage (V)	Off-state output voltage (V)	Trigger current (mA)	Isolation voltage	Package	Cross Reference
BIPC306XPJ/PM	Triac-output Optocouplers	<1.5	>6	600	15 max	3750 V DC	PDIP-6	MOC306X
BIPC3083PJ/PM	Triac-output Optocouplers	<1.7	>6	800	5 typ	3750 V DC	PDIP-6/SMT-6	MOC3083

LDO & Voltage Reference

Linear Regulators

Model / series	Function	Input voltage (V)	Output voltage (V)	Initial accuracy	Output current (A)	Ripple rejection	Quiescent current (mA)	Package	Cross Reference
BIW117PM2C	Linear Regulators	4.25–40	1.25V~37V(VREF=1.25V)	±4%	1.5	80dB@120Hz	0.05	TO-220	LM117
BIW117PM3C	Linear Regulators	4.25–40	1.25V~37V(VREF=1.25V)	±4%	1.5	80dB@120Hz	0.05	SOT-223	LM117
BIW117PMC	Linear Regulators	4.25–40	1.25V~37V(VREF=1.25V)	±4%	1.5	70dB@120Hz	0.05	TO-252	LM117
BIW137PM2C	Linear Regulators	-4.25V~-20V	-1.25V~-17V(VREF=-1.25 V)	±2%	1.5	80dB@120Hz	72MA	TO-220	LM137
BIW137PM3C	Linear Regulators	-4.25V~-20V	-1.25V~-17V(VREF=-1.25 V)	±2%	1.5	80dB@120Hz	72MA	SOT-223	LM137
BIW137PMC	Linear Regulators	-4.25V~-20V	-1.25V~-17V(VREF=-1.25 V)	±2%	1.5	70dB@120Hz	72MA	TO-252	LM137
BIW78LXXPMC	Linear Regulators	~30V	5V/6V/8V/9V/12V/15V/18 V	±4%	0.1	100dB@120Hz	4	SOT-89	LM78LXX
BIW78MXXAPM1C	Linear Regulators	~35V	5V/8V/9V/12V/15V	±4%	0.5	60dB@120Hz	5	TO-252	LM78MXX
BIW78XXAPM1C	Linear Regulators	~35V	5V/8V/9V/12V/15V	±4%	1.5	80dB@120Hz	5	TO-252	LM78XX
BIW78XXAPM2C	Linear Regulators	~35V	5V/8V/9V/12V/15V	±4%	1.5	80dB@120Hz	5	TO-263-3	LM78XX
BIW78XXAPM3C	Linear Regulators	~35V	5V/8V/9V/12V/15V	±4%	1.5	80dB@120Hz	5	SOT-223	LM78XX
BIW78XXAPM5C	Linear Regulators	~35V	5V/8V/9V/12V/15V	±4%	1.5	80dB@120Hz	5	TO-263-2	LM78XX
BIW78XXAPMC	Linear Regulators	~35V	5V/8V/9V/12V/15V	±4%	1.5	80dB@120Hz	5	TO-220	LM78XX
BIW79LXXPMC	Linear Regulators	~30V	-5V/-6V/-8V/-9V/-12V/-15 V	±4%	0.1	60dB@120Hz	2	SOT-89	LM79LXX
BIW79MXXPM1C	Linear Regulators	~35V	-5V/-8V/-9V/-12V/-15V	±4%	0.5	60dB@120Hz	2	TO-252	LM79MXX
BIW79XXPM1C	Linear Regulators	~35V	-5V/-8V/-9V/-12V/-15V	±4%	1.5	60dB@120Hz	2	TO-252	LM79XX
BIW79XXPM2C	Linear Regulators	~35V	-5V/-8V/-9V/-12V/-15V	±4%	1.5	60dB@120Hz	2	SOT-223	LM79XX
BIW79XXPM3C	Linear Regulators	~35V	-5V/-8V/-9V/-12V/-15V	±4%	1.5	60dB@120Hz	2	TO-263-2	LM79XX
BIW79XXPM5C	Linear Regulators	~35V	-5V/-8V/-9V/-12V/-15V	±4%	1.5	60dB@120Hz	2	TO-263-3	LM79XX
BIW79XXPMC	Linear Regulators	~35V	-5V/-8V/-9V/-12V/-15V	±4%	1.5	60dB@120Hz	2	TO-220	LM79XX

Low-dropout Regulators

Model / series	Function	Input voltage (V)	Output voltage (V)	Initial accuracy	Output current (A)	Ripple rejection	Quiescent current (mA)	Package	Cross Reference
BIW1117-XXPM1C	Low-dropout Regulators	~18V	1.2V/1.5V/1.8V/3.3V/5.0V	±2%	1	90dB@120Hz	5	TO-252	LM1117-XX
BIW1117-XXPM2C	Low-dropout Regulators	~18V	1.2V/1.5V/1.8V/3.3V/5.0V	±2%	1	90dB@120Hz	5	SOT-89	LM1117-XX
BIW1117-XXPMC	Low-dropout Regulators	~18V	1.2V/1.5V/1.8V/3.3V/5.0V	±2%	1	90dB@120Hz	5	SOT-223	LM1117-XX
BIW1117PM1C	Low-dropout Regulators	~18V	1.25V~12V(VFB=1.25V)	±2%	1	90dB@120Hz	5	TO-252	LM1117
BIW1117PMC	Low-dropout Regulators	~18V	1.25V~12V(VFB=1.25V)	±2%	1	90dB@120Hz	5	SOT-223	LM1117
BIW1761-XXPMC	Low-dropout Regulators	~20V	3.3V/5.0V	±2%	0.3	92dB@10kHz	0.022	SOT-23-5	LT1761-XX
BIW1761PMC	300 mA LDO regulator	1.9–20	1.2V~20V(VFB=1.2V)	±2%	0.3	92dB@10kHz	22MA	SOT-23-5	LT1761
BIW1763PMC	500 mA LDO regulator	1.9–20	1.21V~20V(VFB=1.21V)	±2%	0.5	100dB@120Hz	1	SOP-8	LT1763
BIW1764PM1C	3 A LDO regulator	1.9–20	1.21V~20V(VFB=1.21V)	±2%	3	55dB@120Hz	5	TO-263-5	LT1764
BIW1764PMC	Low-dropout Regulators	1.9–20	1.21V~20V(VFB=1.21V)	±2%	3	100dB@120Hz	1	SOP-8	LT1764
BIW1963PM1C	Low-dropout Regulators	1.9–20	1.21V~20V(VFB=1.21V)	±1.5%	1.5	100dB@120Hz	1	DFN-8	LT1963
BIW1963PMC	1.5 A LDO regulator	1.9–20	1.21V~20V(VFB=1.21V)	±1.5%	1.5	100dB@120Hz	1	SOP-8	LT1963
BIW1965PM1C	Low-dropout Regulators	1.9–20	1.21V~20V(VFB=1.21V)	±1.5%	1.1	100dB@120Hz	1	DFN-8	LT1965
BIW1965PMC	Low-dropout Regulators	1.9–20	1.21V~20V(VFB=1.21V)	±1.5%	1.1	100dB@120Hz	1	SOP-8	LT1965
BIW3042PM1C	200 mA LDO regulator	~20V	1.5–15	±1%	0.2	92dB@10kHz	4	DFN-10	LT3042
BIW3042PMC	Low-dropout Regulators	~20V	1.5–15	±1%	0.2	92dB@10kHz	4	MSOP-10	LT3042
BIW3045PMC	500 mA LDO regulator	~20V	1.7V~15V(ADJ)	±1%	0.5	76dB@1MHZ	0.0003	DFN-10	LT3045
BIW3122PMC	Low-dropout Regulators	2.8–18	0.8V~5V(VFB=0.8V)	±2%	0.4	—	0.045	SOT-23-5	—
BIW3126-XXAPMC	Low-dropout Regulators	~40V	3.3V/5.0V	±2%	0.15	—	0.0025	SOT-89	—
BIW3126-XXPMC	Low-dropout Regulators	~40V	3.3V/5.0V	±2%	0.15	—	0.0025	SOT-89	—
BIW3128-XXPMC	Low-dropout Regulators	~40V	3.3V/5.0V	±2%	0.5	40dB@1kHz	6000	SOT-89	—
BIW3129-XXPMC	Low-dropout Regulators	2.8–40	3.3V/5.0V	±2%	0.3	64dB@100Hz	3.2MA	SOT-89	—
BIW36152PM1C	Low-dropout Regulators	~36V	1.24V~26V(VREF=1.24V)	±1%	1.5	—	20	TO-263-5	MIC29152
BIW36152PM3C	Low-dropout Regulators	~36V	1.24V~26V(VREF=1.24V)	±1%	1.5	—	20	TO-252-5	MIC29152
BIW36152PMC	Low-dropout Regulators	~36V	1.24V~26V(VREF=1.24V)	±1%	1.5	—	20	TO-220-5	MIC29152
BIW36302PM1C	Low-dropout Regulators	~36V	1.24V~26V(VREF=1.24V)	±1%	3	—	35	TO-263-5	MIC29302
BIW36302PM3C	Low-dropout Regulators	~36V	1.24V~26V(VREF=1.24V)	±1%	3	—	35	TO-252-5	MIC29302
BIW36302PMC	Low-dropout Regulators	~36V	1.24V~26V(VREF=1.24V)	±1%	3	—	35	TO-220-5	MIC29302

Model / series	Function	Input voltage (V)	Output voltage (V)	Initial accuracy	Output current (A)	Ripple rejection	Quiescent current (mA)	Package	Cross Reference
BIW36502PM1C	Low-dropout Regulators	~36V	1.24V~26V(VREF=1.24V)	±1%	5	—	50	TO-263-5	MIC29502
BIW36502PM3C	Low-dropout Regulators	~36V	1.24V~26V(VREF=1.24V)	±1%	5	—	50	TO-252-5	MIC29502
BIW36502PMC	Low-dropout Regulators	~36V	1.24V~26V(VREF=1.24V)	±1%	5	—	50	TO-220-5	MIC29502
BIW51200PMC	Low-dropout Regulators	2.375–5.5	DDR	±15mV	3	—	—	DFN-10	TPS51200
BIW5205-XXPMC	Low-dropout Regulators	~6V	1.2V/1.5V/1.8V/2.5V/3.0V /3.3V	±2%	0.3	78dB@1kHz	0.09	SOT-23-5	—
BIW5205PMC	Low-dropout Regulators	~6V	1.23V~6V(VREF=1.23V)	±2%	0.3	78dB@1kHz	0.09	SOT-23-5	—
BIW5207PMC	Low-dropout Regulators	2–6	0.8V~5V(VFB=0.8V)	±2%	0.6	65dB@1kHz	0.065	SOT-23-5	—
BIW5246PMC	2 A LDO regulator	1.9–7	1.2–6.5	±2%	2	75dB@1kHz	2.7	DFN-8	ADM7172
BIW5332PM2C	Low-dropout Regulators	~24V	-1.2V~-24V(VFB=-1.2V)	±1%	0.5	60dB@10kHz	1.2	SOT-23-5	LT1964
BIW5332PMC	Negative-voltage LDO regulator	~24V	-1.2V~-24V(VFB=-1.2V)	±1%	0.5	60dB@10kHz	1.2	DFN-8	LT1964
BIW5342PM3C	Low-dropout Regulators	-2.5V~-45V	-1.186V~-45V(VFB=-1.22 V)	±1%	0.2	57dB@100Hz	33000	MSOP-8	LT1964
BIW5342PMC	Low-dropout Regulators	-2.5V~-45V	-1.186V~-45V(VFB=-1.22 V)	±1%	0.2	57dB@100Hz	0.033	DFN-8	LT1964
BIW6011PMC	Low-dropout Regulators	1.1–6.5	0.8V~5.5V(VFB=0.8V)	±1%	1.2	35dB@500kHz	4	DFN-8	—
BIW6132-XXPM1C	Low-dropout Regulators	~5.5V	1.8V/3.0V/3.3V	±1%	0.3	50dB@1kHz	34MA	DFN-4	—
BIW7318PMC	Low-dropout Regulators	~12V	1.25V~12V(VFB=1.25V) / 3.3V	±2%	1	—	2	ESOP-8	—
BIW74401APMC	Low-dropout Regulators	1.1–6.5	0.8V~5.5V(VFB=0.8V)	±1%	3	68dB@10kHz	15	QFN-20	TPS74401
BIW74401PMC	3 A LDO regulator	1.1–6.5	0.8–3.95	±1%	3	68dB@10kHz	15	QFN-20	TPS7A84

Voltage References

Model / series	Function	Reference voltage (V)	Initial accuracy	Input voltage (V)	Output current (A)	Noise	Temperature drift (ppm/°C)	Cathode voltage (V)	Minimum operating current (mA)	Package	Cross Reference
BIW0XAPM1C	Voltage References	10V/5V/2.5V/3V	±0.1%	~36V	±10mA	10μVpp(0.1Hz~10 Hz)	10	—	—	SOP-8	ADR01 / 2 / 3 / 6
BIW136-2.5PMC	Voltage References	2.5	±0.6%	—	—	—	50	—	0.4	SOP-8	LM136-2.5
BIW136-5PMC	Voltage References	5	±2%	—	—	—	50	—	0.4	SOP-8	LM136-5
BIW1385-1.2PMC	Voltage References	1.235	±1%	—	—	60μV(10Hz~10kHz)	150	—	0.02	SOT-23-3	LM385-1.2
BIW1385-2.5PMC	Voltage References	2.5	±1%	—	—	60μV(10Hz~10kHz)	150	—	0.02	SOT-23-3	LM385-2.5

Model / series	Function	Reference voltage (V)	Initial accuracy	Input voltage (V)	Output current (A)	Noise	Temperature drift (ppm/°C)	Cathode voltage (V)	Minimum operating current (mA)	Package	Cross Reference
BIW34XXPMC	Voltage References	1.2V/2.048V/2.5V/3.0V/3.3V/4.096V/5.0V	±0.05%	~13V	±10mA	8µVpp/V(0.1Hz~10Hz)	10	—	—	SOT-23-6	REF34XX
BIW431PM1C	Voltage References	2.5	±0.5%	—	—	—	50	~36V	0.5	SOP-8	TL431
BIW431PMC	Voltage References	2.5	±0.5%	—	—	—	50	~36V	0.5	SOT-23-3	TL431
BIW432PMC	Voltage References	2.5	±0.5%	—	—	—	50	~36V	0.5	SOT-23-3	TL432
BIW434PMC	Voltage References	1.25	±0.5%	—	—	—	20	~35V	0.08	SOT-23-3	TLV431
BIW52XXPMC	Voltage References	1.25V/2.048V/2.5V/3.0V/3.3V/4.096V	±0.1%	~5.5V	±5mA	15µVpp(0.1Hz~10Hz)	20	—	—	SOT-23-3	REF33XX
BIW580PMC	Voltage References	2.5	±0.4%	~15V	±10mA	10µVpp(0.1Hz~10Hz)	10	—	—	SOP-8	AD580
BIW584PMC	Voltage References	Programmable(10V/7.5V/5V/2.5V)	±0.1%	~40V	±10mA	50µVpp(0.1Hz~10Hz)	10	—	—	SOP-8	AD584
BIW586PMC	Voltage References	5	±0.2%	~40V	±10mA	10µVpp(0.1Hz~10Hz)	10	—	—	SOP-8	AD586
BIW780PMC	Voltage References	2.5V/3V	±0.4%	~36V	±10mA	4µVpp(0.1Hz~10Hz)	5	—	—	SOP-8	AD780

Power Switches & Supervisors

Load Switches

Model / series	Function	Input voltage (V)	Output current (A)	Channels	Description	Package	Cross Reference
BIW6870PMC	Load Switches	3.5–18	3	1	Single-channel low-impedance switch with overvoltage and overcurrent protection.	DFN-8	—
BIW6871PMC	Dual-channel load switch	0.8–5.5	6	2	Dual-channel low-impedance load switch; handbook reference: TPS22976A.	DFN-14	TPS22976A
BIW6872PMC	Hot-swap load protection switch	3.5–40	3	1	Hot-swap load-protection switch; external MOSFET expansion for higher current.	DFN-8	—
BIW6873PMC	Load Switches	2.5–5.5	2	1	High-side load switch with reverse-current blocking.	SOT-23-6	—

Smart Power Switches

Model / series	Function	Operating voltage (V)	Overvoltage-protecti on supply (V)	Input voltage (V)	Input current (mA)	IS-pin current (mA)	DC input voltage (V)	Load current (A)	Package	Cross Reference
BIKW4141	Smart high-side power switch	12–45	47	0–5	±5	—	—	—	SOT223	BTS4141N
BIKW442	Smart Power Switches	4.5–42	63	—	±5	±5	-0.5–6	—	TO-220-5	BTS442
BIKW50085	Smart high-side power switch	5–58	70	—	+15 / –250	+15 / –250	—	38	TO-220-7	BTS50085
BIKW6163	Smart high-side switch	5.5–52	63	—	+15 / –120	+15 / –120	—	17	TO-252-5-1	BTS6163D

Voltage Supervisors & Reset ICs

Model / series	Function	Supply voltage (V)	Reset threshold (V)	Reset pulse width (ms)	Manual reset	Watchdog timeout (s)	Reset output	Watchdog timeout (unit not stated)	Package	Cross Reference
BIW293XPMC	Voltage Supervisors & Reset ICs	1–5.5	2.63V / 2.93V	200	No	—	Low	—	SOT-23-3	—
BIW3808-XXPMC	Voltage Supervisors & Reset ICs	1.65–6.5	0.405–4.65	Programmable	Yes	—	Low	1	SOT23-6	TPS3808
BIW706XPMC	Voltage Supervisors & Reset ICs	1–5.5	2.63–4.65	200	Yes	1.6	Low	—	SOP-8	MAX706
BIW708XPMC	Voltage Supervisors & Reset ICs	1–5.5	2.63–4.65	200	Yes	—	Low/High	—	SOP-8	MAX708
BIW804XPMC	Voltage Supervisors & Reset ICs	1–5.5	1.63–2.93	Programmable	—	—	Low	—	SOT-23-5	MAX804
BIW809XPMC	Voltage Supervisors & Reset ICs	1–5.5	2.25–4.65	240	No	—	Low	—	SOT-23-3	MAX809
BIW810XPMC	Voltage Supervisors & Reset ICs	1–5.5	2.25–4.65	240	No	—	High	—	SOT-23-3	MAX810
BIW811XPM1C	Voltage Supervisors & Reset ICs	1.2–5.5	2.63–3.08	200	Yes	—	Low	—	SOT-143	MAX811

Model / series	Function	Supply voltage (V)	Reset threshold (V)	Reset pulse width (ms)	Manual reset	Watchdog timeout (s)	Reset output	Watchdog timeout (unit not stated)	Package	Cross Reference
BIW823XPMC	Voltage Supervisors & Reset ICs	1–5.5	1.58–4.65	200	Yes	1.6	Low	—	SOT-23-5	MAX823

Logic & Voltage Translation

Logic ICs

Model / series	Function	Supply voltage (V)	Input voltage (V)	Supply current (mA)	Input current (mA)	Supply current (unit not stated)	Package	Cross Reference
BI40103	Logic ICs	3–18	0–18	10	±4mA	—	SOP16 / TSSOP16	CD40103
BI4011	Logic ICs	3–18	0–18	0.03	±1µA	—	SOP14/TSSOP14	CD4011
BI4013	Logic ICs	3–18	0–18	0.12	±1µA	—	SOP14 / TSSOP14	CD4013
BI4017	Logic ICs	3–18	0–18	0.6	±1µA	—	SOP16/TSSOP16	CD4017
BI4018	Logic ICs	3–18	0–18	3	±1µA	—	SOP16 / TSSOP16	CD4018
BI4023	Logic ICs	3–18	0–18	0.03	±1µA	—	SOP14/TSSOP14	CD4023B
BI4060	Logic ICs	3–18	0–18	3	±1µA	—	SOP16/TSSOP16	CD4060
BI4069	Logic ICs	3–18	0–18	0.15	±1µA	—	SOP14 / TSSOP14	CD4069UB
BI4070	Logic ICs	3–15	0–15	0.03	±1µA	—	SOP14 / TSSOP14	CD4070
BI4071	Logic ICs	3–18	0–18	0.15	±1µA	—	SOP14/TSSOP14	CD4071B
BI4073	Logic ICs	3–18	0–18	0.15	±1µA	—	SOP14 / TSSOP14	CD4073B
BI4081	Logic ICs	3–18	0–18	0.15	±1µA	—	SOP14 / TSSOP14	CD4081B
BI4093	Logic ICs	3–18	0–18	0.6	±1µA	—	SOP14 / TSSOP14	CD4093
BIAC10	Logic ICs	2–6	0–6	0.04	±1µA	—	SOP14/TSSOP14	SN54AC10 / ,CD54AC10, / 54AC10
BIAC11	Logic ICs	2–6	0–6	0.04	±1µA	—	SOP14/TSSOP14	SN54AC11, / 54AC11
BIAC125	Logic ICs	4	2–6	Confirmation pending	0.05	—	SOP14 / TSSOP14	SN54AC125
BIAC244	Logic ICs	8	2–6	—	0.08	0~6	SOP20 / TSSOP20	SN54AC244
BIAC273	Logic ICs	2–6	0–6	0.08	±1µA	—	SOP20 / TSSOP20	SN54AC273 / 4AC273 / 54AC273 / M54HC273
BIAC32	Logic ICs	1.5–5.5	0–5.5	0.08	±1µA	—	SOP14/TSSOP14	CD74AC32
BIAC377	Logic ICs	2–6	0–6	0.08	±1µA	—	SOP20 / TSSOP20	SN54AC377 / CD54AC377
BIAC574	Logic ICs	2–6	0–6	0.08	±1µA	—	SOP20 / TSSOP20	SN54AC574 / CD54AC574 / 54AC574
BIAHC02	Logic ICs	2–5.5	0–5.5	0.02	±1µA	—	SOP14/TSSOP14	54AHC02
BIAHC08	Logic ICs	2–5.5	0–5.5	75	—	—	SOP14 / TSSOP14	SN54AHC08
BIAHC123	Logic ICs	2–5.5	0–5.5	0.975	±2.5µA	—	SOP16/TSSOP16	SN54AHC123

Model / series	Function	Supply voltage (V)	Input voltage (V)	Supply current (mA)	Input current (mA)	Supply current (unit not stated)	Package	Cross Reference
BIAHC1G00	Logic ICs	2–5.5	0–5.5	0.01	±1µA	—	SOP8/TSSOP8	AHC1G00
BIAHC573	Logic ICs	2–5.5	0–5.5	0.04	±1µA	—	SOP20 / TSSOP20	SN54AHC573
BIAHCT86	Logic ICs	4.5–5.5	0–5.5	0.02	±1µA	—	SOP14/TSSOP14	SN54AHCT86
BIALS573	Logic ICs	2–6	0–6	27	±0.1mA	—	SOP20 / TSSOP20	54ALS573
BIALS74	Logic ICs	4.75–5.25	0–5.25	8	±0.1mA	—	SOP14/TSSOP14	54ALS74
BIHC00	Logic ICs	2–6	0–6	0.04	±1mA	—	SOP14 / TSSOP14	54HC00
BIHC02	Logic ICs	2–5.5	0–5.5	0.02	±1µA	—	SOP14/TSSOP14	54HC02
BIHC04	Logic ICs	4.5–5.5	0–5.5	0.04	±1µA	—	SOP14 / TSSOP14	54HC04
BIHC123	Logic ICs	4.5–5.5	0–5.5	3.2	±5µA	—	SOP16/TSSOP16	54HC123
BIHC138	Logic ICs	2–6	0–6	0.16	±1µA	—	SOP16/TSSOP16	SN54HC138
BIHC14	Logic ICs	4.5–5.5	0–5.5	0.04	±1µA	—	SOP14 / TSSOP14	54HC14
BIHC161	Logic ICs	1.5–5.5	0–5.5	0.16	±1µA	—	SOP16/TSSOP16	SN54AC161 / CD54AC161 / 54AC161 / M54HC161
BIHC164	Logic ICs	1.5–5.5	0–5.5	0.16	±1µA	—	SOP14/TSSOP14	54HC164
BIHC165	Logic ICs	2–5.5	0–5.5	0.16	±1µA	—	SOP16/TSSOP16	CD54HC165
BIHC191	Logic ICs	2–6	0–6	0.08	±1µA	—	SOP16/TSSOP16	SN54AC191 / ,CD54AC191, / 54AC191
BIHC240	Logic ICs	2–6	0–6	0.16	±1µA	—	SOP20 / TSSOP20	54HC240
BIHC299	Logic ICs	2–6	0–6	0.08	±1µA	—	SOP20 / TSSOP20	SN54AC299 / CD54AC299 / 54AC299
BIHC373	Logic ICs	2–6	0–6	0.16	±1µA	—	SOP20 / TSSOP20	54HC373
BIHC374	Logic ICs	4.5–5.5	0–5.5	0.16	±1µA	—	SOP20 / TSSOP20	54HC374
BIHC573	Logic ICs	2–6	0–6	0.16	±1µA	—	SOP20 / TSSOP20	SN54HC573
BIHC595	Logic ICs	2–6	0–6	0.16	±1µA	—	SOP16/TSSOP16	SN54HC595
BIHC74	Logic ICs	4.5–5.5	0–5.5	0.04	±1µA	—	SOP14	54HC74
BIHC86	Logic ICs	2–6	0–6	0.04	±0.1µA	—	SOP14/TSSOP14	54HC86
BIHCT04	Logic ICs	4.5–5.5	0–5.5	0.04	±1µA	—	SOP14 / TSSOP14	54HCT04
BIHCT08	Logic ICs	2–6	0–6	0.04	±1µA	—	SOP14/TSSOP14	54HCT08
BIHCT138	Logic ICs	2–6	0–6	0.16	±1µA	—	SOP16/TSSOP16	54HCT138
BIHCT14	Logic ICs	4.5–5.5	0–5.5	0.04	±1µA	—	SOP14 / TSSOP14	54HCT14A

Model / series	Function	Supply voltage (V)	Input voltage (V)	Supply current (mA)	Input current (mA)	Supply current (unit not stated)	Package	Cross Reference
BIHCT273	Logic ICs	4.5–5.5	0–5.5	0.08	±1µA	—	SOP20/TSSOP20	54HCT273
BILS04	Logic ICs	4.5–5.5	0–5.5	6.6	±20µA	—	SOP14/TSSOP14	54LS04
BILS06	Logic ICs	4.5–5.5	0–5.5	60	±1mA	—	SOP14 / TSSOP14	54LS06
BILS139	Logic ICs	4.5–5.5	0–5.5	11	±0.1mA	—	SOP16 / TSSOP16	54ALS139
BILS14	Logic ICs	4.75–5.25	0–5.25	21	±0.1mA	—	SOP14/TSSOP14	54LS14
BILVC04	Logic ICs	1.2–3.6	0–3.6	0.01	±5µA	—	SOP14 / TSSOP14	SN54LVC04A
BILVC08	Logic ICs	1.2–3.6	0–3.6	0.04	±20µA	—	SOP14 / TSSOP14	74LVC08
BILVC138	Logic ICs	1.2–3.6	0–3.6	0.01	±5µA	—	SOP16/TSSOP16	SN54LVC138
BILVC157	Logic ICs	1.2–3.6	0–3.6	0.01	±5µA	—	SOP16/TSSOP16	SN54LVC157A
BILVC1G00	Logic ICs	1.65–5.5	0–5	0.01	±5µA	—	SOP8/TSSOP8	SN74LVC1G00
BILVC1G02	Logic ICs	1.65–5.5	0–5.5	0.01	±5µA	—	SOP8/TSSOP8 / SOT23-5	SN54LVC1G02
BILVC1G04	Logic ICs	1.65–5.5	3–5	0.01	±5µA	—	SOP8/TSSOP8 / SOT23-5	SN74LVC1G04
BILVC1G08	Logic ICs	1.65–5.5	0–5	0.01	±5µA	—	SOT23-5	SN74LVC1G08
BILVC1G14	Logic ICs	1.65–5.5	3–5	0.01	±5µA	—	SOP8/TSSOP8 / SOT23-5	SN74LVC1G14
BILVC1G19	Logic ICs	1.5–5.5	0–5.5	0.01	±5µA	—	SOP8/TSSOP8	SN74LVC1G19
BILVC1G32	Logic ICs	1.65–5.5	0–5	±10µA	±5µA	—	SOT23-5	74LVC1G32
BILVC1G74	Logic ICs	1.65–5.5	0–5.5	0.01	±5µA	—	SOP8/TSSOP8	SN74LVC1G74
BILVC2G04	Logic ICs	1.65–5.5	0–5	0.01	±5µA	—	SOP8/TSSOP8	SN74LVC2G04
BILVC2G08	Logic ICs	1.65–5.5	0–5.5	100	—	—	SOP8 / TSSOP8	SN74LVC2G08
BILVC2G14	Logic ICs	1.65–5.5	0–5	±10µA	±5µA	—	SOP8/TSSOP8	74LVC2G14
BILVC32	Logic ICs	1.2–3.6	0–3.6	0.04	±20µA	—	SOP14/TSSOP14	54LVC32
BILVC74	Logic ICs	1.2–3.6	0–3.6	0.02	±5µA	—	SOP14/TSSOP14	SN74ALVC74
BILVTH16373	Logic ICs	2.7–3.6	0–3.6	5	0.01	—	SOP48	74LVTH16373

Timers

Model / series	Function	Supply voltage (V)	Input voltage (V)	Supply current (mA)	Trigger current (mA)	Trigger voltage (V)	Package	Cross Reference
BIB555	Timers	3–18	0–18	15	-0.005	4.7–5.6	SOP8/TSSOP8	LM555
BIC555	Timers	2–15	2–15	0.4	—	3.7–4.3	SOP8/TSSOP8	LMC555

Voltage-level Translators

Model / series	Function	Supply voltage (V)	Input voltage (V)	Supply current (mA)	Input current (mA)	Supply current (unit not stated)	Package	Cross Reference
BI0101	Voltage-level Translators	1.65–5.5	0–5.5	0.01	±2µA	—	SOT23-6 / SOP8	TXB0101
BI0102	Voltage-level Translators	1.65–5.5	0–5.5	0.01	±2µA	—	SOT23-8/SOP8 / TSSOP8	TXB0102
BI0104	Voltage-level Translators	1.65–5.5	0–5.5	0.01	±2µA	—	SOP14 / TSSOP14	TXB0104
BI0108	Voltage-level Translators	1.65–5.5	0–5.5	0.01	±2µA	—	SOP20/TSSOP20	TXB0108 / MAX3000E / ADG3300
BIALVC164245	Voltage-level Translators	2–6	0–6	±40µA	±5µA	—	SOP48	74ALVC164245
BIALVC4245	Voltage-level Translators	3.3–5	0–5	0.04	±5µA	—	SOP48	74ALVC4245
BIAVC16T245	Voltage-level Translators	0.8–3.6	0–3.6	0.045	±1µA	—	SOP48	74AVC16T245
BIAVC4T245	Voltage-level Translators	0.8–3.6	0–3.6	100	±50mA	—	SOP16 / TSSOP16	SN74AVC4T245
BIAVC8T245	Voltage-level Translators	1.2–3.6	0–3.6	0.025	±1µA	—	SOP14 / TSSOP14	74AVC8T245
BIHCT245	Voltage-level Translators	4.5–5.5	0–5.5	0.16	±1µA	—	SOP20 / TSSOP20	54HCT245
BILVC1T45	Voltage-level Translators	1.65–5.5	0–5.5	0.004	±2µA	—	SOP8 / TSSOP8	74LVC1T45
BILVC245	Voltage-level Translators	1.65–3.6	0–3.6	0.03	±10µA	—	SOP20/TSSOP20	SN74LVC245A
BILVC2T45	Voltage-level Translators	1.65–5.5	0–5.5	0.004	±2µA	—	SOP8 / TSSOP8	74LVC2T45
BILVC4245	Voltage-level Translators	2.7–5.5	0–5.5	0.08	±1µA	—	SOP24/TSSOP24	74LVC4245
BILVC8T245	Voltage-level Translators	1.65–5.5	0–5.5	0.025	±2µA	—	SOP24/TSSOP24	SN74LVC8T245
BILVCH161245	Voltage-level Translators	1.65–5.5	0–5.5	—	±2µA	30 (unit not specified)	SOP48	SN74LVC16T245

Sensors

Hall-effect Sensors

Model / series	Function	Operating voltage (V)	Reverse-protection voltage (V)	Magnetic operate point (Gauss)	Magnetic release point (Gauss)	Package	Cross Reference
BIHS401A	Hall-effect Sensors	3.8–60	80	10–80	-80—10	TO-92S	SS41 / SS40
BIHS401U	Hall-effect Sensors	3.8–60	80	10–80	-80—10	SOT-23-3L	SS41 / SS40
BIHS402A	Hall-effect Sensors	3.8–60	80	10–40	-40—10	TO-92S	SS460 / SS361
BIHS402U	Hall-effect Sensors	3.8–60	80	10–40	-40—10	SOT-23-3L	SS460 / SS361
BIHS501A	Hall-effect Sensors	2.7–30	—	9 typ	-9 typ	TO-92S	A1201 / HAL1501
BIHS501S	Hall-effect Sensors	2.7–30	—	9 typ	-9 typ	SOT-23	A1201 / HAL1501
BIHS501U	Hall-effect Sensors	2.7–30	—	9 typ	-9 typ	SOT-23-3L	A1201 / HAL1501
BIHS6201A	Hall-effect Sensors	2.5–5.5	—	±18 to ±42	±8 to ±32	TO-92S	A1324 / A3241 / SS541
BIHS6201S	Hall-effect Sensors	2.5–5.5	—	±18 to ±42	±8 to ±32	SOT-23	A1324 / A3241 / SS541

Temperature Sensors

Model / series	Function	Supply voltage (V)	Input voltage (V)	Operating current (mA)	Quiescent current (mA)	Temperature error (°C)	Package	Cross Reference
BI423	Temperature Sensors	2.7–5.5	2.7–5.5	0.038	0.01	±1.5°C	SOP-8	TMP423
BI590	Temperature Sensors	4–30	—	—	—	±1.7°C	SOIC-8 / TDFN-2*2-4L	AD590
BIM1605	Temperature Sensors	1.8–5.5	1.8–5.5	0.36	0.05	±0.5°C	SOT23-3	—

Memory & Microcontrollers

FRAM

Model / series	Function	Memory density	Clock frequency (MHz)	Data width	Supply voltage (V)	Interface	Package	Cross Reference
BIFR24V05	FRAM	512Kbit	1	×8	1.7–5.5	I2C	SOP-8	FM24V05
BIFR25V20	FRAM	2Mbit	25	×8	-0.5–4	SPI	SOP-8/TDFN-8	FM25V20

Microcontrollers

Model / series	Function	Clock frequency (MHz)	Flash memory	SRAM	I/O count	I²C count	SPI / I²S count	Package	Cross Reference
BI32F003	Microcontrollers	48	32KB	4KB	16	1	1	TSSOP-20/SOP-20/QFN-20	—
BI32F030	Microcontrollers	48	32~256KB	4~32KB	55	2	2	LQFP-64/48/32/QFN-32	—
BI32F051	Microcontrollers	48	32/64KB	8KB	55	2	2(1)	LQFP-64/48/32/QFN-48/32	—
BI32F091	Microcontrollers	48	128/256KB	32KB	88	2	2(2)	LQFP-100/64/48/QFN-48	—
BI32F103	Microcontrollers	96	64~512KB	20~128KB	112	2	3(2)	LQFP-144/100/64/48/QFN-36	—
BI32F105	Microcontrollers	96	128/256KB	64KB	80	2	3(2)	LQFP-100/64	—
BI32F107	Microcontrollers	96	128/256KB	64KB	80	2	3(2)	LQFP-100/64	—
BI32F403	Microcontrollers	120	128KB	32KB	51	1	2	LQFP-64/48/QFN-48/36	—
BI32F407	Microcontrollers	168	512/1024KB	192KB+4KB	140	3	3(2)	LQFP-144/100/64	—
BI32F411	Microcontrollers	120	512KB	128KB	81	3	5(5)	LQFP-100/64/48/QFN-48	—

NVSRAM

Model / series	Function	Memory density	Maximum frequency (MHz)	Supply voltage (V)	Interface	Package	Cross Reference
BIK1268	NVSRAM	64kbit	1	1.5–5.5	parallel	SOP-28	STK12C68
BIK1488	NVSRAM	256kbit	1	1.5–5.5	parallel	SOP-32	STK14C88
BIK14A8	NVSRAM	1M	5	3–3.6	parallel	SOP-32	STK14CA8

SPI Flash

Model / series	Function	Memory density	Clock frequency (MHz)	Supply voltage (V)	Interface	Package	Cross Reference
BI25LQ128	SPI Flash	128Mbit	100	1.65–2	SPI	SOP8	N25LQ28
BI25LQ16	SPI Flash	16Mbit	100	1.65–2	SPI	SOP8/SOP8	N25LQ16
BI25LQ32	SPI Flash	32Mbit	100	1.65–2	SPI	SOP8/SOP8	N25LQ32
BI25Q128	SPI Flash	128Mbit	100	2.7–3.6	SPI	SOP8	N25Q128
BI25Q16	SPI Flash	16Mbit	100	2.7–3.6	SPI	SOP8/SOP8	N25Q16
BI25Q256	SPI Flash	256Mbit	100	2.7–3.6	SPI	SOP16	N25Q256
BI25Q32	SPI Flash	32Mbit	100	2.7–3.6	SPI	SOP8/SOP8	N25Q32
BI25Q64	SPI Flash	64Mbit	100	2.7–3.6	SPI	SOP8/SOP8	N25Q64

SRAM

Model / series	Function	Memory density	Data width	Supply voltage (V)	Interface	Package	Cross Reference
BISR12816	SRAM	2Mbit	×16	3.3	parallel	TSOP-44	CY7C1011
BISR1288	SRAM	1Mbit	×8	3.3	parallel	TSOP-32	CY7C1019
BISR1M16	SRAM	16Mbit	×16	3.3	parallel	TSOP-44	CY7C1061
BISR1M8	SRAM	8Mbit	×8	3.3	parallel	TSOP-44	CY7C1059
BISR256	SRAM	256kbit	×8	3.3	parallel	TSOP-28	CY7C1399
BISR25616	SRAM	4Mbit	×16	3.3	parallel	TSOP-44	CY7C1041
BISR2568	SRAM	2Mbit	×8	3.3	parallel	TSOP-44	CY7C1010
BISR51216	SRAM	8Mbit	×16	3.3	parallel	TSOP-44	CY7C1051
BISR5128	SRAM	4Mbit	×8	3.3	parallel	TSOP-44	CY7C1049
BISR6416	SRAM	1Mbit	×16	3.3	parallel	TSOP-44	CY7C1021

MOSFETs, SiC & IGBTs

DFN 8 × 8 MOSFETs

Model / series	Function	BVDSS (V)	Gate-source voltage (V)	Gate threshold (V)	On resistance at VGS=10 V (mΩ)	On resistance at VGS=4.5 V (mΩ)	Drain current (A)	Package	Cross Reference
BI10N65	650 V silicon MOSFET	650	±25	2.5/3.5/4.5	320/490	—	11	DFN8*8	—
BI10N70	700 V silicon MOSFET	700	±25	2.5/3.5/4.5	320/490	—	11	DFN8*8	—
BI20N65	650 V silicon MOSFET	650	±25	2.5/3.5/4.5	120/156	—	20	DFN8*8	—

IGBTs

Model / series	Function	BVCES (V)	Collector current (A)	Gate-emitter voltage (V)	Power dissipation (W)	VCE(sat) typ (V)	VGE typ (V)	Turn-on energy (mJ)	Turn-on delay (ns)	Rise time (ns)	Eoff (unit pending)	Turn-off delay (ns)	Fall time (ns)	Frequency (kHz)	Package	Cross Reference
BI05GT65	IGBTs	650	5	±20	65	1.5	4.5	0.08	13	7	0.06	152	49	25	TO-252	IRGS06TE65
BI100GT120	IGBTs	1200	100	±20	785	1.9	5.2	8.32	279	279	8.05	308	205	25	TO-264Plus	IRGS100T120
BI10GT65	IGBTs	650	10	±20	110	1.8	4.5	0.16	15	8	0.27	225	43	25	TO-220F	IRGS10TE65
BI125GT120	IGBTs	1200	125	±20	826	1.9	5	10.3	286	286	8.1	321	150	25	TO-264Plus	IRGS125T120
BI150GT120	IGBTs	1200	150	±20	968	2.1	4.8	11.6	325	325	6.8	350	85	25	TO-264Plus	IRGS150T120
BI15GT120	1200 V IGBT	1200	15	±20	236	2	5	1.03	32	21	0.7	213	67	40	TO-247	IRGS15T120
BI15GT65	IGBTs	650	15	±20	130	1.8	4.5	0.22	18	11	0.35	211	50	25	TO-220F	IRGS15TE65
BI160GT75	IGBTs	750	160	±20	836	1.8	4.5	4.1	45	36	2.79	365	41	40	TO-247Plus	—
BI20GT65	650 V IGBT	650	20	±20	166	1.7	4.6	0.31	19	14	0.46	199	42	40	TO-220F	IRGS20TE65
BI25GT120	1200 V IGBT	1200	25	±20	249	2	4.7	2.4	44	54	0.8	243	71	40	TO-247	IRGS25T120
BI25GT65	IGBTs	650	25	±20	178	1.8	4.5	0.51	21	18	0.65	229	46	25	TO-220F	IRGS25TE65
BI30GT65	IGBTs	650	30	±20	187	1.8	4.5	0.69	23	21	0.77	254	49	25	TO-247	IRGS30TE65
BI40GT120	1200 V IGBT	1200	40	±20	525	1.95	4.7	2.8	77	48	1.5	251	57	40	TO-247	IRGS40T120
BI40GT65	650 V IGBT	650	40	±20	250	1.8	4.5	0.86	20	30	0.45	156	30	40	TO-247	IRGS40TE65
BI45GT120	IGBTs	1200	45	±20	597	1.9	5	3.3	89	52	1.68	299	51	40	TO-247	IRGS45T120
BI45GT65	IGBTs	650	45	±20	258	1.8	4.5	1.09	37	24	0.57	310	33	25	TO-247	IRGS45TE65
BI50GT120	IGBTs	1200	50	±20	680	2.1	5	3.8	101	58	1.9	349	43	40	TO-247	IRGS50T120
BI50GT65	IGBTs	650	50	±20	280	1.8	4.6	1.46	23	36	0.63	131	20	40	TO-247	IRGS50TE65
BI55GT65	IGBTs	650	55	±20	325	1.8	4.5	1.51	42	30	0.85	320	36	25	TO-247	IRGS55TE65

Model / series	Function	BVCES (V)	Collector current (A)	Gate-emitter voltage (V)	Power dissipation (W)	VCE(sat) typ (V)	VGE typ (V)	Turn-on energy (mJ)	Turn-on delay (ns)	Rise time (ns)	Eoff (unit pending)	Turn-off delay (ns)	Fall time (ns)	Frequency (kHz)	Package	Cross Reference
BI60GT120	IGBTs	1200	60	±20	520	2.1	4.2	12.2	88	217	6.2	725	269	25	TO-3PL	IRGS60T120
BI60GT65	650 V IGBT	650	60	±20	383	1.8	4.5	1.82	32	45	0.88	169	33	40	TO-247	IRGS60TE65
BI75GT120	IGBTs	1200	75	±20	657	2.1	4.8	6.7	305	67	4.3	328	287	25	TO-247Plus	IRGS75T120
BI75GT65	IGBTs	650	75	±20	415	1.8	4.5	1.3	46	30	1.50	365	30	40	TO-247	IRGS75TE65
BI80GT65	IGBTs	650	80	±20	435	1.8	4.5	1.4	48	33	1.57	368	32	40	TO-247	IRGS80TE65

Low-voltage N-channel MOSFETs

Model / series	Function	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold min (V)	Gate threshold max (V)	Package	Cross Reference
BIM021	Low-voltage N-channel MOSFETs	100	27	0.05	2	4	TO-252	IRF130
BIM024	Low-voltage N-channel MOSFETs	60	14	0.1	2	4	TO-252	IRFE024
BIM100	Low-voltage N-channel MOSFETs	100	45	0.01	2	4	TO-252	IRF110
BIM1004	Low-voltage N-channel MOSFETs	40	40	0.015	1	3	PDFN5060	IRL7YS1404CM
BIM100N06	Low-voltage N-channel MOSFETs	60	100	0.052	2	4	TO-220C	IPP100N06S4L-05
BIM100N10	Low-voltage N-channel MOSFETs	100	100	0.0057	2	4	TO-220C	IPI100N10S4-05
BIM1101	Low-voltage N-channel MOSFETs	100	30	0.03	2	4	TO-252	FDMS86101
BIM1210	Low-voltage N-channel MOSFETs	100	60	0.015	2	4	TO-220C	FDMS86101
BIM125N06	Low-voltage N-channel MOSFETs	60	125	0.0185	2	4	PDFN5060	IPP120N06S4L-05
BIM125N10	Low-voltage N-channel MOSFETs	100	125	0.0042	2	4	TO-220C	IPI120N10S4-05
BIM12N06	Low-voltage N-channel MOSFETs	60	12	0.016	0.8	1.8	SOT-23	NTB60N06
BIM140	Low-voltage N-channel MOSFETs	100	45	0.01	2	4	TO-252	IRF140N
BIM1405	Low-voltage N-channel MOSFETs	55	55	0.0053	2	4	TO-252	IRL7N1404
BIM140N06	Low-voltage N-channel MOSFETs	60	140	0.00195	1	3	TO-220C	IPP140N06S4L-05
BIM150	Low-voltage N-channel MOSFETs	100	34	0.07	2	4	TO-252	IRF150
BIM150N10	Low-voltage N-channel MOSFETs	100	150	0.0034	2	4	PDFN5060	IPI150N10S4-05
BIM160N06	Low-voltage N-channel MOSFETs	60	160	0.0042	2	4	TO-220C	IPP160N06S4L-05
BIM160N10	Low-voltage N-channel MOSFETs	100	160	0.0029	2	4	TO-220C	IPI160N10S4-05
BIM175N10	Low-voltage N-channel MOSFETs	100	175	0.0026	2	4	TO-220C	IPI170N10S4-05
BIM210N06	Low-voltage N-channel MOSFETs	60	210	0.0035	2	4	TO-220C	IPP210N06S4L-05

Model / series	Function	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold min (V)	Gate threshold max (V)	Package	Cross Reference
BIM2215	Low-voltage N-channel MOSFETs	100	6	4	0.8	2.4	TO-252	IRLF130
BIM2307	Low-voltage N-channel MOSFETs	75	23	0.004	2	4.5	TO-252	BMS4007
BIM250N10	Low-voltage N-channel MOSFETs	100	250	0.002	2	4	TO-263	IP11250N10S4-05
BIM275N06	Low-voltage N-channel MOSFETs	60	275	0.0017	1.2	2.5	PDFN5060/TOLL	IPP270N06S4L-05
BIM2907	Low-voltage N-channel MOSFETs	75	75	0.0045	2	4	TO-252	IRFP2907
BIM300N10	Low-voltage N-channel MOSFETs	100	300	0.017	2	4	TO-220C	IP1300N10S4-05
BIM3205	Low-voltage N-channel MOSFETs	55	55	0.008	2	4	TO-252	IRF5N3205
BIM320N06	Low-voltage N-channel MOSFETs	60	320	0.001	2	4	TO-220C	IPP320N06S4L-05
BIM3710	Low-voltage N-channel MOSFETs	100	45	0.028	2	4	TO-252	IRF3710
BIM4018	Low-voltage N-channel MOSFETs	40	35	0.006	1.5	3	PDFN5060	IRL7N1404
BIM4946	Low-voltage N-channel MOSFETs	60	9	0.04	1	3	TO-252	IRFE024
BIM5060	Low-voltage N-channel MOSFETs	60	52.4	0.021	1.3	2.5	TO-252/TO-220E W	PCFQP50N06
BIM67130	Low-voltage N-channel MOSFETs	100	22	0.042	2	4	TO-252	IRFM140
BIM6849	Low-voltage N-channel MOSFETs	100	6.5	0.3	2	4	TO-252	IRFP5510
BIM75N10	Low-voltage N-channel MOSFETs	100	75	0.025	2	4	TO-220C	IRFB4110
BIM90N06	Low-voltage N-channel MOSFETs	60	88	0.065	2	4	TO-220C	IPP80N06S4L-05

MOSFET Modules

Model / series	Function	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold min (V)	Gate threshold max (V)	Package	Cross Reference
BIQ130N50	MOSFET Modules	500	112	0.039	3	5	SOT-227	IXFN130N50T
BIQ420N10	MOSFET Modules	100	420	0.023	2.5	5	SOT-227	IXFN420N10T
BIQ420N15	MOSFET Modules	150	400	0.0025	2.5	4.5	SOT-227	IXFN420N15T
BIQ50N80	MOSFET Modules	800	50	0.16	3	5.5	SOT-227	XIFN50B80T
BIQ90N85	MOSFET Modules	850	90	0.041	3.5	5.5	SOT-227	IXFN90N85T

Medium / High-voltage N-channel MOSFETs

Model / series	Function	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold min (V)	Gate threshold max (V)	Package	Cross Reference
BI24N40	Medium / High-voltage N-channel MOSFETs	400	24	0.14	2	4	TO-247	—
BI2N6802	Medium / High-voltage N-channel MOSFETs	500	2.5	1.5	2	4	TO-220M	IRF430
BI40N60	Medium / High-voltage N-channel MOSFETs	600	40	0.09	2	4	TO-220F / TO-3PB	SIHG40N60
BIM02N60	Medium / High-voltage N-channel MOSFETs	600	2	3.4	2	4	TO-220F / TO-3PB	IPP06R600
BIM06N60	Medium / High-voltage N-channel MOSFETs	600	6	1	2	4	TO-220F / TO-3PB	IPP06R600
BIM08N60	Medium / High-voltage N-channel MOSFETs	600	8	0.8	2	4	TO-220F / TO-3PB	IPP08R600
BIM10N25	Medium / High-voltage N-channel MOSFETs	250	12.8	0.24	1	3	TO-252	IRF340
BIM10N60	Medium / High-voltage N-channel MOSFETs	600	10	0.75	2	4	TO-220F / TO-3PB	IPP10R600
BIM15N50	Medium / High-voltage N-channel MOSFETs	500	15	0.29	2	4	TO-3PB / TO-247	FDPF15N50
BIM16N60	Medium / High-voltage N-channel MOSFETs	600	16	0.5	2	4	TO-220F / TO-3PB	IPP16R600
BIM20N20	Medium / High-voltage N-channel MOSFETs	200	120	0.011	2	4	TO-220C	IRFV260
BIM20N50	Medium / High-voltage N-channel MOSFETs	500	20	0.45	2	4	TO-3PB / TO-247	FDPF20N50
BIM20N60	Medium / High-voltage N-channel MOSFETs	600	20	0.45	2	4	TO-220F / TO-3PB	IPP20R600
BIM20N65	Medium / High-voltage N-channel MOSFETs	650	20	0.25	2	4.5	TO-247	IRFAE30
BIM230	Medium / High-voltage N-channel MOSFETs	200	9.3	0.3	2	4	TO-252	IRF230N
BIM250	Medium / High-voltage N-channel MOSFETs	200	15	0.085	2	4	TO-252	IRF250B
BIM260	Medium / High-voltage N-channel MOSFETs	200	45	0.06	2	4	TO-252	IRF260
BIM30N50	Medium / High-voltage N-channel MOSFETs	500	30	0.16	2	4	TO-3PB / TO-247	FDPF30N50
BIM31N20	Medium / High-voltage N-channel MOSFETs	200	27.4	0.1	2	4	TO-252	2N7225

Model / series	Function	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold min (V)	Gate threshold max (V)	Package	Cross Reference
BIM3315	Medium / High-voltage N-channel MOSFETs	150	5	0.09	2	5.5	TO-252	IRFE230
BIM340	Medium / High-voltage N-channel MOSFETs	400	8.7	0.63	2	4	TO-220M	IRF340
BIM350	Medium / High-voltage N-channel MOSFETs	400	16	0.3	2	4	TO-247	IRF350
BIM40N50	Medium / High-voltage N-channel MOSFETs	500	40	0.09	2	4	TO-3PB / TO-247	FDPF40N50
BIM450	Medium / High-voltage N-channel MOSFETs	500	13	0.515	2	4	TO-220M	IRF450
BIM460	Medium / High-voltage N-channel MOSFETs	500	21	0.24	2	4	TO-3PB / TO-247	IRF460
BIM4668	Medium / High-voltage N-channel MOSFETs	200	130	0.0197	3	5	TO-220C	IRFP4668
BIM47N60	Medium / High-voltage N-channel MOSFETs	600	35	0.12	3	5	TO-220F / TO-3PB	SIHG35N60
BIM50N20	Medium / High-voltage N-channel MOSFETs	200	56	0.06	2	4	TO-252	IRF260
BIM50N50	Medium / High-voltage N-channel MOSFETs	500	50	0.13	3	5	TO-3PB / TO-247	—
BIM50N60	Medium / High-voltage N-channel MOSFETs	600	50	0.09	2	4	TO-220F / TO-3PB	SIHG50N60
BIM63260	Medium / High-voltage N-channel MOSFETs	200	58	0.025	1	3	TO-252	IRFV260
BIM67230	Medium / High-voltage N-channel MOSFETs	200	16	0.134	2	4	TO-252	IRFV360
BIM6794	Medium / High-voltage N-channel MOSFETs	500	1.5	3	2	4	TO-220M	IRF420

SiC MOSFETs

Model / series	Function	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold min (V)	Gate threshold max (V)	Package	Cross Reference
BIM12C120	SiC MOSFETs	1200	90	0.025	1.5	3.5	TO-247-3/4	NTBG014N120M3P
BIM90C120	SiC MOSFETs	1200	63	0.032	2	4	TO-247-3/4	NTBG014N120M3P
BISM10012	SiC MOSFETs	1200	66	0.04	1.5	3.5	TO-247-3/4	MSC017SMA120S
BISM100C65	650 V SiC MOSFET	650	100	0.018	3	5	TO-247-3/4	SCTWA90N65
BISM110C120	1200 V SiC MOSFET	1200	110	0.019	1.5	3.5	TO-247-3	—

Model / series	Function	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold min (V)	Gate threshold max (V)	Package	Cross Reference
BISM115N120	SiC MOSFETs	1200	115	0.016	1.5	3.5	TO-247-3	IHRG120R350M1H
BISM20C120	1200 V SiC MOSFET	1200	32	0.075	2	4	TO-247-3/4	IMZ120R140M1H
BISM2C170	SiC MOSFETs	1200	100	0.021	1.5	3.5	TO-247-3	—
BISM36C65	650 V SiC MOSFET	650	36	0.08	3	5	TO-247-3	SCTWA36N65
BISM40170	SiC MOSFETs	1700	40	0.04	2	4	TO-247	NTBG40N170M1
BISM40C120	SiC MOSFETs	1200	36	0.0065	1.5	3.5	TO-247-3/4	NVH4L080N120SC1
BISM60C60	SiC MOSFETs	600	60	0.034	3	5	TO-247-3	NTH4L045N065SC1
BISM6C170	SiC MOSFETs	1700	5	1	1.5	3.5	TO-247-3	NTBGO5N170M1
BISM73C170	SiC MOSFETs	1700	72	0.045	1.5	3.5	TO-247-3	NTBG028N170M1
BISM80N65	SiC MOSFETs	650	80	0.025	1.9	4	TO-247-7	SCTWA80N65

SiC Schottky Diodes

Model / series	Function	Average forward current (A)	VRRM (V)	Peak forward current (A)	Forward voltage (V)	Package	Cross Reference
BIS10S120	1200 V SiC Schottky diode	10	1200	72	1.5	TO-220-2	FFSP10120AF
BIS10S170	SiC Schottky Diodes	10	1700	72	1.7	TO-220-2 / TO-247-2	FFSH10170ADN
BIS10S65 Listing 1	SiC Schottky Diodes	20	650	150	1.5	TO-220-2	FFSM1065B
BIS10S65 Listing 2	SiC Schottky Diodes	30	650	200	1.5	TO-220-2	FFSM1065B
BIS12S120	1200 V SiC Schottky diode	12	1200	120	1.5	TO-220-2	FFSP12120AF
BIS15S120	SiC Schottky Diodes	15	1200	140	1.5	TO-220-2 / TO-247-2/3	FFSH15120ADN
BIS16S120	SiC Schottky Diodes	16	1200	210	1.5	TO-220-2 / TO-247-2/3	FFSH16120ADN
BIS20S120	1200 V SiC Schottky diode	20	1200	280	1.5	TO-220-2 / TO-247-2/3	NVDSH20120C
BIS20S170	SiC Schottky Diodes	20	1700	100	1.7	TO-220-2 / TO-247-2	FFSH20170ADN
BIS20S65	SiC Schottky Diodes	40	650	250	1.5	TO-247-3	PCFFS2065AF
BIS25S170	SiC Schottky Diodes	25	1700	120	1.7	TO-220-2 / TO-247-2	FFSH25170ADN
BIS2S120	SiC Schottky Diodes	5	1200	30	1.5	TO-220-2	FFSP05120AF

Model / series	Function	Average forward current (A)	VRRM (V)	Peak forward current (A)	Forward voltage (V)	Package	Cross Reference
BIS30S120	1200 V SiC Schottky diode	30	1200	350	1.5	TO-247-3	FFSH30120ADN
BIS40S120	1200 V SiC Schottky diode	40	1200	400	1.5	TO-247-3	FFSH40120ADN
BIS4S60	650 V SiC Schottky diode	10	650	100	1.5	TO-220-2	FFSP0465A
BIS5S120	SiC Schottky Diodes	6	1200	30	1.5	TO-220-2	FFSP06120AF
BIS5S170	SiC Schottky Diodes	5	1700	30	1.7	TO-220-2	FFSH05170ADN

Small-signal Field-effect Transistors

Model / series	Function	Power dissipation (W)	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold (V)	Polarity	Package	Cross Reference
BI1.7MP60	Small-signal Field-effect Transistors	0.35	-60	-0.17	Confirmation pending	1.4/2.0	P	SOT-23	BSS84
BI17MP19	Small-signal Field-effect Transistors	0.7	-19	-1.7	Confirmation pending	0.62/1.0	P	SOT-23	SI2301N
BI20M100	Small-signal Field-effect Transistors	1.3	100	2	Confirmation pending	1.8/3.0	N	SOT-23	HR02N10A
BI20MP19	Small-signal Field-effect Transistors	0.7	-19	-2	Confirmation pending	0.62/1.0	P	SOT-23	SI2301G
BI20MP20	Small-signal Field-effect Transistors	0.7	-20	-2	Confirmation pending	0.62/1.0	P	SOT-23	SI2301F
BI2M100	Small-signal Field-effect Transistors	0.35	100	0.2	Confirmation pending	1.8/2.5	N	SOT-23	BSS123
BI3.4M50	Small-signal Field-effect Transistors	0.35	50	0.34	Confirmation pending	1.2/1.6	N	SOT-23	BSS138
BI3.4M60	Small-signal Field-effect Transistors	0.35	60	0.34	Confirmation pending	1.5/2.5	N	SOT-23	2N7002
BI30M100	Small-signal Field-effect Transistors	1.2	100	3	Confirmation pending	1.8/3.0	N	SOT-23	HR03G10A
BI30M20	Small-signal Field-effect Transistors	0.7	20	3	Confirmation pending	0.8/1.1	N	SOT-23	SI2302B
BI30M60A	Small-signal Field-effect Transistors	1.2	60	3	Confirmation pending	1.3/2.0	N	SOT-23	HR03N06A
BI30M60B	Small-signal Field-effect Transistors	1.2	60	3	Confirmation pending	1.0/1.6	N	SOT-23	HR03N06B
BI30MP30	Small-signal Field-effect Transistors	1.1	-30	-3	Confirmation pending	1.5/2.4	P	SOT-23	SI2303A
BI34MP20	Small-signal Field-effect Transistors	1	-20	-3.4	Confirmation pending	0.62/1.0	P	SOT-23	SI2301C

Model / series	Function	Power dissipation (W)	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold (V)	Polarity	Package	Cross Reference
BI35M30	Small-signal Field-effect Transistors	1	30	3.5	Confirmation pending	1.6/2.2	N	SOT-23	SI2304B
BI36M30	Small-signal Field-effect Transistors	1	30	3.6	Confirmation pending	1.5/2.2	N	SOT-23	SI2304A
BI38MP19	Small-signal Field-effect Transistors	1	-19	-3.8	Confirmation pending	0.62/1.0	P	SOT-23	SI2301D
BI3M60	Small-signal Field-effect Transistors	0.3	60	0.3	Confirmation pending	1.5/2.5	N-K	SOT-23	2N7002KC
BI41MP30	Small-signal Field-effect Transistors	1.2	-30	-4.1	Confirmation pending	1.5/2.4	P	SOT-23	SI3407A
BI43M20	Small-signal Field-effect Transistors	1	20	4.3	Confirmation pending	0.9/1.3	N	SOT-23	SI2302A
BI44MP30	Small-signal Field-effect Transistors	1.2	-30	-4.4	Confirmation pending	0.9/1.4	P	SOT-23	SI3401A
BI45M20A	Small-signal Field-effect Transistors	1	20	4.5	Confirmation pending	0.6/1.0	N	SOT-23	SI2300A
BI45M20C	Small-signal Field-effect Transistors	1	20	4.5	Confirmation pending	0.6/1.0	N	SOT-23	SI2300C
BI45M20C1	Small-signal Field-effect Transistors	1	20	4.5	Confirmation pending	0.8/1.2	N	SOT-23	SI2302C
BI54MP20	Small-signal Field-effect Transistors	1.2	-20	-5.4	Confirmation pending	0.62/1.0	P	SOT-23	SI2305B
BI56M30	Small-signal Field-effect Transistors	1.2	30	5.6	Confirmation pending	0.9/1.5	N	SOT-23	SI3400A
BI56M30A	Small-signal Field-effect Transistors	1.2	30	5.6	Confirmation pending	1.5/2.2	N	SOT-23	SI3404A
BI56MP15	Small-signal Field-effect Transistors	1.1	-15	-5.6	Confirmation pending	0.62/1.0	P	SOT-23	SI2305A
BI5M20	Small-signal Field-effect Transistors	0.35	20	0.5	Confirmation pending	0.75/1.1	N-K	SOT-23	SI3134KA
BI5MP20	Small-signal Field-effect Transistors	0.35	-20	-0.5	Confirmation pending	0.62/1.2	P-K	SOT-23	SI3139KA
BI68M20	Small-signal Field-effect Transistors	1.25	20	6.8	Confirmation pending	0.6/1.0	N	SOT-23	SI2312A
BIM138	Small-signal Field-effect Transistors	1.2	60	0.23	Confirmation pending	0.6/3	N	SOT-23	IRF7749L2
BIM7002	Small-signal Field-effect Transistors	0.35	60	0.34	Confirmation pending	1.6/2.5	N	SOT-23	2N7002A

TOLL MOSFETs

Model / series	Function	BVDSS (V)	Gate-source voltage (V)	Gate threshold (V)	On resistance at VGS=10 V (mΩ)	On resistance at VGS=4.5 V (mΩ)	Drain current (A)	Package	Cross Reference
BI240N08	80 V silicon MOSFET	80	±20	2.0/3.3/4.0	1.6/2.0	—	240	TOLL	—
BI280N06	60 V silicon MOSFET	60	±20	2/2.8/4.0	1.1/1.5	—	280	TOLL	—
BI300N03	30 V silicon MOSFET	30	±20	1.2/1.6/2.5	1.0/1.3	1.6/2.1	304	TOLL	—
BI310N04	40 V silicon MOSFET	40	±20	1.2/1.6/2.5	1.1/1.43	1.7/2.2	310	TOLL	—

Ultra-high-voltage N-channel MOSFETs

Model / series	Function	BVDSS (V)	Drain current (A)	On resistance (Ω)	Gate threshold min (V)	Gate threshold max (V)	Package	Cross Reference
BIM1201	Ultra-high-voltage N-channel MOSFETs	1150	8	3.5	2	4	TO-252	SIHFC40DWF
BIM24100	Ultra-high-voltage N-channel MOSFETs	1000	24	0.39	3	6.5	TO-247	—
BIM3100	Ultra-high-voltage N-channel MOSFETs	850	3.9	4.2	2	4	TO-247	6FH1603BFC8
BIM3N120	Ultra-high-voltage N-channel MOSFETs	1200	3	5.1	3	5	TO-3PH	IXPT3N120
BIM5N120	Ultra-high-voltage N-channel MOSFETs	1200	5	2.6	3	5	TO-263	IXPT5N120
BIM9N90	Ultra-high-voltage N-channel MOSFETs	900	9	3	2	4	TO-247	IRFAG40
BIM9N95	Ultra-high-voltage N-channel MOSFETs	880	9	1.5	3	5	TO-247	ISC9N95

Diodes & Protection

Fast Recovery Diodes

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current max (μA)	Reverse recovery time (ns)	Package	Cross Reference
BI10F10	Fast Recovery Diodes	10	100	250	1	5	50	SMC(DO-214AB)	US10B
BI10F100	Fast Recovery Diodes	10	1000	200	1.7	5	75	SMC(DO-214AB)	US10M
BI10F20	Fast Recovery Diodes	10	200	250	1	5	50	SMC(DO-214AB)	US10D
BI10F40	Fast Recovery Diodes	10	400	250	1.3	5	50	SMC(DO-214AB)	US10G
BI10F5	Fast Recovery Diodes	10	50	250	1	5	50	SMC(DO-214AB)	US10A
BI10F60	Fast Recovery Diodes	10	600	200	1.7	5	75	SMC(DO-214AB)	US10J
BI10F80	Fast Recovery Diodes	10	800	200	1.7	5	75	SMC(DO-214AB)	US10K
BI1F10	Fast Recovery Diodes	1	100	30	1	5	50	SOD-123/SMAF/SMA(DO-214AC)	US1BF / US1B
BI1F100	Fast Recovery Diodes	1	1000	30	1.7	5	75	SOD-123/SMAF/SMA(DO-214AC)	US1MF / US1M
BI1F20	Fast Recovery Diodes	1	200	30	1	5	50	SOD-123/SMAF/SMA(DO-214AC)	US1DF / US1D
BI1F5	Fast Recovery Diodes	1	50	30	1	5	50	SOD-123/SMAF/SMA(DO-214AC)	US1AF / US1A
BI1F80	Fast Recovery Diodes	1	800	30	1.7	5	75	SOD-123/SMAF/SMA(DO-214AC)	US1KF / US1K
BI1N5811	Fast Recovery Diodes	6	150	175	1	5	50	SMC(DO-214AB)	1N5811
BI20F20	Fast Recovery Diodes	20	200	50	1.4	5	40	SMC(DO-214AB)	OM5216ST
BI25F20	Fast Recovery Diodes	25	200	125	1.26	5	40	SMC(DO-214AB)	OM5220ST
BI25F40	Fast Recovery Diodes	24	400	100	1.5	5	40	SMC(DO-214AB)	OM5225SA
BI2F10	Fast Recovery Diodes	2	100	60	1	5	50	SMB(DO-214AA)	US2B
BI2F100	Fast Recovery Diodes	2	1000	60	1.7	5	75	SMB(DO-214AA)	US2M
BI2F20	Fast Recovery Diodes	2	200	60	1	5	50	SMB(DO-214AA)	US2D
BI2F40	Fast Recovery Diodes	2	400	60	1.3	5	50	SMB(DO-214AA)	US2G
BI2F50	Fast Recovery Diodes	2	50	60	1	5	50	SMB(DO-214AA)	US2A
BI2F60	Fast Recovery Diodes	2	600	60	1.7	5	75	SMB(DO-214AA)	US2J
BI2F80	Fast Recovery Diodes	2	800	60	1.7	5	75	SMB(DO-214AA)	US2K

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current max (μA)	Reverse recovery time (ns)	Package	Cross Reference
BI30F120	Fast Recovery Diodes	30	1200	100	3.2	5	75	SMC(DO-214AB)	PCISL9R30120W
BI30F30	Fast Recovery Diodes	30	300	100	1.25	5	40	SMC(DO-214AB)	OM5225DA
BI30F60	Fast Recovery Diodes	30	600	100	1.8	5	40	SMC(DO-214AB)	HFA35HB60C
BI30F80	Fast Recovery Diodes	30	800	100	2.8	5	75	SMC(DO-214AB)	QM100Q80HR
BI34F60	Fast Recovery Diodes	34	600	100	1.8	5	40	SMC(DO-214AB)	HFA35HB60C
BI35F120	Fast Recovery Diodes	35	1200	130	3.3	5	75	SMC(DO-214AB)	PCISL9R30120W
BI35F60	Fast Recovery Diodes	35	600	130	1.75	5	75	SMC(DO-214AB)	FFAF40U60DN
BI3F10	Fast Recovery Diodes	3	100	125	1	5	50	SMC(DO-214AB)	US3B
BI3F100	Fast Recovery Diodes	3	1000	100	1.7	5	75	SMC(DO-214AB)	US3M
BI3F40	Fast Recovery Diodes	3	400	125	1.3	5	50	SMC(DO-214AB)	US3G
BI3F5	Fast Recovery Diodes	3	50	125	1	5	50	SMC(DO-214AB)	US3A
BI3F60	Fast Recovery Diodes	3	600	100	1.7	5	75	SMC(DO-214AB)	US3J
BI3F80	Fast Recovery Diodes	3	800	100	1.7	5	75	SMC(DO-214AB)	US3K
BI40F60	Fast Recovery Diodes	15	600	50	1.56	5	75	SMC(DO-214AB)	OM5007ST
BI5F10	Fast Recovery Diodes	5	100	150	1	5	50	SMC(DO-214AB)	US5B
BI5F100	Fast Recovery Diodes	5	1000	125	1.7	5	75	SMC(DO-214AB)	US5M
BI5F20	Fast Recovery Diodes	5	200	150	1	5	50	SMC(DO-214AB)	US5D
BI5F40	Fast Recovery Diodes	5	400	150	1.3	5	50	SMC(DO-214AB)	US5G
BI5F5	Fast Recovery Diodes	5	50	150	1	5	50	SMC(DO-214AB)	US5A
BI5F60	Fast Recovery Diodes	5	600	125	1.7	5	75	SMC(DO-214AB)	US5J
BI5F80	Fast Recovery Diodes	5	800	125	1.7	5	75	SMC(DO-214AB)	US5K
BI60F20	Fast Recovery Diodes	60	200	300	1.1	5	45	SMC(DO-214AB)	DPF601200HA
BI6F10	Fast Recovery Diodes	6	100	175	1	5	50	SMC(DO-214AB)	US6B
BI6F100	Fast Recovery Diodes	6	1000	150	1	5	75	SMC(DO-214AB)	US6M
BI6F20	Fast Recovery Diodes	6	200	175	1.3	5	50	SMC(DO-214AB)	US6D
BI6F40	Fast Recovery Diodes	6	400	175	1.7	5	50	SMC(DO-214AB)	US6G
BI6F5	Fast Recovery Diodes	6	50	175	1	5	50	SMC(DO-214AB)	US6A
BI6F60	Fast Recovery Diodes	6	600	150	1.7	5	75	SMC(DO-214AB)	US6J
BI6F80	Fast Recovery Diodes	6	800	150	1.7	5	75	SMC(DO-214AB)	US6K

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current max (μA)	Reverse recovery time (ns)	Package	Cross Reference
BI8F10	Fast Recovery Diodes	8	100	200	1	5	50	SMC(DO-214AB)	US8B
BI8F100	Fast Recovery Diodes	8	1000	175	1.7	5	75	SMC(DO-214AB)	US8M
BI8F20	Fast Recovery Diodes	8	200	200	1	5	50	SMC(DO-214AB)	US8D
BI8F40	Fast Recovery Diodes	8	400	200	1.3	5	50	SMC(DO-214AB)	US8G
BI8F5	Fast Recovery Diodes	8	50	200	1	5	50	SMC(DO-214AB)	US8A
BI8F60	Fast Recovery Diodes	8	600	175	1.7	5	75	SMC(DO-214AB)	US8J
BI8F80	Fast Recovery Diodes	8	800	175	1.7	5	75	SMC(DO-214AB)	US8K
BIF3560	Fast Recovery Diodes	30	600	225	2.25	5	75	SMC(DO-214AB)	HFA35HB60C
BIF5001	Fast Recovery Diodes	15	50	180	1.1	5	60	SMC(DO-214AB)	OM5001ST
BIF5002	Fast Recovery Diodes	15	100	180	1.1	5	50	SMC(DO-214AB)	OM5002ST
BIF5005	Fast Recovery Diodes	15	300	180	1.5	5	40	SMC(DO-214AB)	OM5005ST
BIF5203	Fast Recovery Diodes	16	150	60	1.1	5	40	SMC(DO-214AB)	OM5203RA
BIF5206	Fast Recovery Diodes	30	150	150	1.1	5	40	SMC(DO-214AB)	OM5206RA
BIF5216	Fast Recovery Diodes	16	200	150	1	5	40	SMC(DO-214AB)	OM5216ST
BIF5225	Fast Recovery Diodes	15	400	100	1.5	5	40	SMC(DO-214AB)	OM5225DA
BIF5257	Fast Recovery Diodes	40	50	500	1.1	5	50	SMC(DO-214AB)	OM5257DA
BIF5258	Fast Recovery Diodes	40	100	500	1.1	5	50	SMC(DO-214AB)	OM5258DA
BIF5259	Fast Recovery Diodes	40	150	500	1.1	5	40	SMC(DO-214AB)	OM5259SA
BIUR160	Fast Recovery Diodes	1	600	30	1.7	5	75	SOD-123/SMAF/SMMA(DO-214AC)	US1JF / US1J
BIUR1D40	Fast Recovery Diodes	1	400	30	1.3	5	50	SOD-123/SMAF/SMMA(DO-214AC)	US1GF / US1G
BIUR200	Fast Recovery Diodes	20	200	50	1	5	30	SMC(DO-214AB)	OM5216DT
BIUR320Q	Fast Recovery Diodes	3	200	125	1	5	50	SMC(DO-214AB)	US3D
BIUR4030	Fast Recovery Diodes	40	300	400	1.5	5	40	SMC(DO-214AB)	FFA60UP30DN

Schottky Diodes

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current @ VR (mA)	Package	Cross Reference
BI10S10	Schottky Diodes	10	100	200	0.85	0.5	SMC	HRR10010U150
BI10S15	Schottky Diodes	10	150	200	0.9	0.5	SMP/TO-220	HRR10200

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current @ VR (mA)	Package	Cross Reference
BI10S20	Schottky Diodes	10	200	200	0.9	0.5	ITO-220	HRR10200
BI10S4	Schottky Diodes	10	40	200	0.55	0.5	SMC	HRR1040
BI10S6	Schottky Diodes	10	60	200	0.7	0.5	SMC(DO-214AB) / SMP / TO-220 / ITO-220 / TO-220AB / TO-267	HRR1060
BI10S8	Schottky Diodes	10	80	200	0.7	0.5	SMC(DO-214AB) / SMP / TO-220 / ITO-220 / TO-220AB / TO-267	HRR1080
BI15S10	100 V silicon Schottky diode	15	100	250	0.85	0.5	TO-277B	HRR15100
BI15S15	Schottky Diodes	15	150	250	0.9	0.5	TO-277B	HRR15150
BI15S20	Schottky Diodes	15	200	200	0.9	0.5	TO-277B	HRR15200
BI15S4	Schottky Diodes	15	40	250	0.55	0.5	SMP	HRRB1540
BI15S4.5	Schottky Diodes	15	45	280	0.55	0.5	SMP/TO-277A	HRRB1545
BI15S5	Schottky Diodes	15	50	250	0.52	0.5	SMP/TO-277A	HRRB1550
BI15S6	Schottky Diodes	15	60	250	0.7	0.5	SMP	HRRB1560
BI15S8	Schottky Diodes	15	80	250	0.7	0.5	SMP	HRR1580
BI16S10	Schottky Diodes	16	100	125	0.85	0.5	TO-220/ITO-220	HRR16100
BI16S15	Schottky Diodes	16	150	125	0.92	0.5	TO-220/ITO-220	HRR16150
BI16S20	Schottky Diodes	16	200	125	0.92	0.5	TO-220/ITO-220	HRR16200
BI16S30	Schottky Diodes	16	30	30	0.53	0.5	TO-277B	HRR1630
BI16S4	Schottky Diodes	16	40	125	0.55	0.5	TO-220/ITO-220	HRR1640
BI16S6	Schottky Diodes	16	60	125	0.7	0.5	TO-220/ITO-220	HRR1660
BI1S10	Schottky Diodes	1	100	25	0.85	0.5	SOD-123/SMAF/S MA(DO-214AC)	SS110F
BI1S15	Schottky Diodes	1	150	25	0.9	0.5	SOD-123/SMAF/S MA(DO-214AC)	SS115F
BI1S2	Schottky Diodes	1	20	25	0.55	0.5	SOD-123/SMAF/S MA(DO-214AC)	SS12F
BI1S20	Schottky Diodes	1	200	25	0.9	0.5	SOD-123/SMAF/S MA(DO-214AC)	SS120F
BI1S4	Schottky Diodes	1	40	25	0.55	0.5	SOD-123/SMAF/S MA(DO-214AC)	SS14F

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current @ VR (mA)	Package	Cross Reference
BI1S6	Schottky Diodes	1	60	25	0.7	0.5	SOD-123/SMAF/SM A(DO-214AC)	SS16F
BI1S8	Schottky Diodes	1	80	25	0.7	0.5	SOD-123/SMAF/SM A(DO-214AC)	SS18F
BI20S10	Schottky Diodes	20	100	150	0.82	0.5	TO-220 / ITO-220 / TO-220AB	HRR20100
BI20S15	Schottky Diodes	20	150	150	0.85	0.5	TO-220 / ITO-220 / TO-220AB	HRR20150
BI20S20	Schottky Diodes	20	200	150	0.89	0.5	TO-220 / ITO-220 / TO-220AB	HRRB20200
BI20S4.5	Schottky Diodes	20	45	350	0.52	0.5	TO-277B	HRR2045
BI20S6	Schottky Diodes	20	60	150	0.75	0.5	TO-220 / ITO-220 / TO-220AB	HRR2060
BI20S8	Schottky Diodes	20	80	150	0.68	0.5	TO-220 / ITO-220 / TO-220AB	HRR2080
BI2S10	Schottky Diodes	2	100	50	0.85	0.5	SMAF/SMA(DO-21 4AC)/SMB(DO-214 AA)	SS210F
BI2S15	Schottky Diodes	2	150	50	0.95	0.5	SMAF/SMA(DO-21 4AC)/SMB(DO-214 AA)	SS215F
BI2S2	Schottky Diodes	2	20	50	0.55	0.5	SMAF/SMA(DO-21 4AC)/SMB(DO-214 AA)	SS22F
BI2S20	Schottky Diodes	2	200	50	0.95	0.5	SMAF/SMA(DO-21 4AC)/SMB(DO-214 AA)	SS220F
BI2S4	Schottky Diodes	2	40	50	0.55	0.5	SMAF/SMA(DO-21 4AC)/SMB(DO-214 AA)	SS24F
BI2S4.5	Schottky Diodes	2	45	50	0.55	0.5	SMAF/SMA(DO-21 4AC)/SMB(DO-214 AA)	SS245F
BI2S6	Schottky Diodes	2	60	50	0.7	0.5	SMAF/SMA(DO-21 4AC)/SMB(DO-214 AA)	SS26F
BI2S8	Schottky Diodes	2	80	50	0.7	0.5	SMAF/SMA(DO-21 4AC)/SMB(DO-214 AA)	SS28F
BI3S10	Schottky Diodes	—	100	80	0.85	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS310F

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current @ VR (mA)	Package	Cross Reference
BI3S15	Schottky Diodes	3	150	80	0.95	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS315F
BI3S2	Schottky Diodes	3	20	80	0.55	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS32F
BI3S20	Schottky Diodes	3	200	80	0.95	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS320F
BI3S4	Schottky Diodes	3	40	80	0.55	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS34F
BI3S50	Schottky Diodes	3	45	30	0.55	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	—
BI3S6	Schottky Diodes	3	60	80	0.7	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS36F
BI3S8	Schottky Diodes	3	80	80	0.7	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS38F
BI5S10	Schottky Diodes	5	100	120	0.85	0.5	SMB(DO-214AA)/ SMC(DO-214AB)	SS510F
BI5S15	Schottky Diodes	5	150	120	0.85	0.5	SMB(DO-214AA)/ SMC(DO-214AB)	SS515F
BI5S2	Schottky Diodes	5	20	120	0.55	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS52F
BI5S20	Schottky Diodes	5	200	120	0.85	0.5	SMC(DO-214AB)	SS520F
BI5S4	Schottky Diodes	5	40	120	0.55	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS54F
BI5S4.5	Schottky Diodes	5	45	120	0.55	0.5	SMC(DO-214AB)	SS545F
BI5S6	Schottky Diodes	—	60	120	0.7	0.5	SMA(DO-214AC)/ SMB(DO-214AA)/ SMC(DO-214AB)	SS56F
BI5S8	Schottky Diodes	5	80	120	0.7	0.5	SMB(DO-214AA)/ SMC(DO-214AB)	SS58F
BI7.5S60	Schottky Diodes	7.5	60	30	0.56	0.5	SMC(DO-214AB)	—
BI7S20	Schottky Diodes	7.5	200	30	0.9	0.5	SMC	—
BI8S10	100 V silicon Schottky diode	8	100	150	0.85	0.5	SMC	SS810C

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current @ VR (mA)	Package	Cross Reference
BI8S15	Schottky Diodes	8	150	150	0.85	0.5	SMC	SS815C
BI8S2	Schottky Diodes	8	20	150	0.45	0.5	SMC	SS82C
BI8S20	Schottky Diodes	8	200	150	0.85	0.5	SMC	SS820C
BI8S4	Schottky Diodes	8	40	150	0.55	0.5	SMC	SS84C
BI8S6	Schottky Diodes	8	60	150	0.7	0.5	SMC	SS86C
BI8S8	Schottky Diodes	8	80	150	0.7	0.5	SMC	SS88C
BIS30100	Schottky Diodes	30	100	100	0.9	0.5	ITO-220	FYA3010DN

Switching Diodes

Model / series	Function	Peak forward current (A)	Peak reverse voltage (V)	Surge current (A)	Forward voltage (V)	Reverse current (μA)	Reverse recovery time (ns)	Package	Cross Reference
BICK19 Listing 1	Switching Diodes	0.4	120	2.5	1	0.5	50	SOD123 / SOD-323	BAV19W
BICK19 Listing 2	Switching Diodes	0.2	120	1.7	1	0.5	50	SOD123 / SOD-323	BAV19WS
BICK20 Listing 1	Switching Diodes	0.4	200	2.5	1	0.5	50	SOD123 / SOD-323	BAV20W
BICK20 Listing 2	Switching Diodes	0.2	200	1.7	1	0.5	50	SOD123 / SOD-323	BAV20WS
BICK21 Listing 1	Switching Diodes	0.4	250	2.5	1	0.5	50	SOD123 / SOD-323	BAV21W
BICK21 Listing 2	Switching Diodes	0.2	250	1.7	1	0.5	50	SOD123 / SOD-323	BAV21WS

TVS Diodes

Model / series	Function	VRWM (V)	TVS class	Direction	Package	Cross Reference
BI02KxxA	TVS Diodes	XX	200 W	Unidirectional	SOD-123FL	SMFXXA
BI02KxxCA	TVS Diodes	XX	200 W	Bidirectional	SOD-123FL	SMFXXCA
BI04KxxA	TVS Diodes	XX	400 W	Unidirectional	SMA/DO-41	SMAJXXA
BI04KxxCA	TVS Diodes	XX	400 W	Bidirectional	SMA/DO-41	SMAJXXCA
BI06KxxA	TVS Diodes	XX	600 W	Unidirectional	SMA/SHR/DO-15	SHRFJxxA
BI06KxxCA	TVS Diodes	XX	600 W	Bidirectional	SMA/SHR/DO-15	SHRFJXXCA
BI10KAxxPL	TVS Diodes	XX	10000 A	Bidirectional	AK	AK10xX

Model / series	Function	VRWM (V)	TVS class	Direction	Package	Cross Reference
BI110KxxCAPL4	TVS Diodes	—	11000 W	Bidirectional	DO-218AB	SM8TxxCAP
BI15KxxA	TVS Diodes	xX	1500 W	Unidirectional	SHR/SMC/DO-201 AD/AE	SMCJXXA
BI15KxxCA	TVS Diodes	xX	1500 W	Bidirectional	SHR/SMC/DO-201 AD/AE	SMCJXXCA
BI30KxxA	TVS Diodes	XX	3000 W	Unidirectional	SMC/R-6	SMCJxXA
BI30KxxCA	TVS Diodes	XX	3000 W	Bidirectional	SMC/R-6	SMCJXXCA
BI3KAxxPL	TVS Diodes	XX	3000 A	Bidirectional	AK	AK3xX
BI50KxxA	TVS Diodes	XX	5000 W	Unidirectional	SMC/SMP/R-6	SMDJXXA
BI50KxxCA Listing 1	TVS Diodes	XX	5000 W	Bidirectional	SMC/SMP/R-6 / P600	SMDJXXCA
BI50KxxCA Listing 2	TVS Diodes	XX	8000 W	Bidirectional	SMC/SMP/R-6 / P600	P8SXXCA
BI6KAxxPL	TVS Diodes	XX	6000 A	Bidirectional	AK	AK6XX
BI80KxxA	TVS Diodes	XX	8000 W	Unidirectional	P600	P8SXXA

Ultrafast Recovery Diodes

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current max (μA)	Reverse recovery time (ns)	Package	Cross Reference
BI10SF10	Ultrafast Recovery Diodes	10	100	250	0.95	5	35	SMC(DO-214AB)	ES10BF
BI10SF15	Ultrafast Recovery Diodes	10	150	250	0.95	5	35	SMC(DO-214AB)	ES10CF
BI10SF20	Ultrafast Recovery Diodes	10	200	250	0.95	5	35	SMC(DO-214AB)	ES10DF
BI10SF40	Ultrafast Recovery Diodes	10	400	250	1.25	5	35	SMC(DO-214AB)	ES10GF
BI10SF5	Ultrafast Recovery Diodes	10	50	250	0.95	5	35	SMC(DO-214AB)	ES10AF
BI10SF60	Ultrafast Recovery Diodes	10	600	250	1.7	5	35	SMC(DO-214AB)	ES10JF
BI15SF60	Ultrafast Recovery Diodes	15	600	150	1.55	5	40	SMC(DO-214AB)	ES15JF
BI1SF10	Ultrafast Recovery Diodes	1	100	30	0.95	1	35	SMA(DO-214AB)/ SMAF/SOD-123/R-1/A-405/DO-41	ES1BF / E1B
BI1SF20	Ultrafast Recovery Diodes	1	200	30	0.95	1	35	SMA(DO-214AB)/ SMAF/SOD-123/R-1/A-405/DO-41	ES1DF / E1D
BI1SF40	Ultrafast Recovery Diodes	1	400	30	1.25	1	35	SMA(DO-214AB)/ SMAF/SOD-123/R-1/A-405/DO-41	ES1GF / E1G

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current max (µA)	Reverse recovery time (ns)	Package	Cross Reference
BI1SF5	Ultrafast Recovery Diodes	1	50	30	0.95	1	35	SMA(DO-214AB)/ SMAF/SOD-123/R- 1/A-405/DO-41	ES1AF / E1A
BI1SF60	Ultrafast Recovery Diodes	1	600	30	1.7	1	35	SMA(DO-214AB)/ SMAF/SOD-123/R- 1/A-405/DO-41	ES1JF / E1G
BI20SF40	Ultrafast Recovery Diodes	20	400	150	1.6	5	35	SMC(DO-214AB)	ES20GF
BI2SF10	Ultrafast Recovery Diodes	2	100	50	1	2	35	SMB(DO-214AA)/ DO-15	ES2BF
BI2SF15	Ultrafast Recovery Diodes	2	150	50	1	2	35	SMB(DO-214AA)/ DO-15	ES2CF
BI2SF20	Ultrafast Recovery Diodes	2	200	50	1	2	35	SMB(DO-214AA)/ DO-15	ES2DF
BI2SF40	Ultrafast Recovery Diodes	2	400	50	1.25	2	35	SMB(DO-214AA)/ DO-15	ES2GF
BI2SF5	Ultrafast Recovery Diodes	2	50	50	1	2	35	SMB(DO-214AA)/ DO-15	ES2AF
BI2SF60	Ultrafast Recovery Diodes	2	600	50	1.68	2	35	SMB(DO-214AA)/ DO-15	ES2JF
BI30SF60	Ultrafast Recovery Diodes	30	9	300	1.55	5	50	SMC(DO-214AB)	ES30JF
BI35SF60	Ultrafast Recovery Diodes	35	600	300	2.3	5	40	SMC(DO-214AB)	ES35JF
BI3SF10	Ultrafast Recovery Diodes	3	100	100	1	3	35	SMC(DO-214AB)/ DO-201AD	ES3BF
BI3SF15	Ultrafast Recovery Diodes	3	150	100	1	3	35	SMC(DO-214AB)/ DO-201AD	ES3CF
BI3SF20	Ultrafast Recovery Diodes	3	200	100	1	3	35	SMC(DO-214AB)/ DO-201AD	ES3DF
BI3SF40	Ultrafast Recovery Diodes	3	400	100	1.25	3	35	SMC(DO-214AB)/ DO-201AD	ES3GF
BI3SF5	Ultrafast Recovery Diodes	3	50	100	1	3	35	SMC(DO-214AB)/ DO-201AD	ES3AF
BI3SF60	600 V ultrafast recovery diode	3	600	100	1.68	3	35	SMC(DO-214AB)/ DO-201AD	ES3JF
BI5SF10	Ultrafast Recovery Diodes	5	100	150	1	5	35	SMC(DO-214AB)/ DO-201AD	ES5BF
BI5SF15	Ultrafast Recovery Diodes	5	150	150	1	5	35	SMC(DO-214AB)/ DO-201AD	ES5CF

Model / series	Function	Forward current (A)	VRRM (V)	Surge current (A)	Forward voltage @ IF (V)	Reverse current max (μA)	Reverse recovery time (ns)	Package	Cross Reference
BI5SF20	Ultrafast Recovery Diodes	5	200	150	1	5	35	SMC(DO-214AB)/DO-201AD	ES5DF
BI5SF40	Ultrafast Recovery Diodes	5	400	150	1.25	5	35	SMC(DO-214AB)/DO-201AD	ES5GF
BI5SF5	Ultrafast Recovery Diodes	5	50	150	1	5	35	SMC(DO-214AB)/DO-201AD	ES5AF
BI5SF60	Ultrafast Recovery Diodes	5	600	150	1.7	5	35	SMC(DO-214AB)/DO-201AD	ES5JF
BI6SF10	Ultrafast Recovery Diodes	6	100	175	0.95	5	35	SMC(DO-214AB)/DO-201AD	ES6BF
BI6SF15	Ultrafast Recovery Diodes	6	150	175	0.95	5	35	SMC(DO-214AB)/DO-201AD	ES6CF
BI6SF20	Ultrafast Recovery Diodes	6	200	175	0.95	5	35	SMC(DO-214AB)/DO-201AD	ES6DF
BI6SF40	Ultrafast Recovery Diodes	6	400	175	1.25	5	35	SMC(DO-214AB)/DO-201AD	ES6GF
BI6SF5	Ultrafast Recovery Diodes	6	50	175	0.95	5	35	SMC(DO-214AB)/DO-201AD	ES6AF
BI6SF60	Ultrafast Recovery Diodes	6	600	175	1.7	5	35	SMC(DO-214AB)/DO-201AD	ES6JF
BI8SF10	Ultrafast Recovery Diodes	8	100	200	0.95	5	35	SMC(DO-214AB)	ES8BF
BI8SF15	Ultrafast Recovery Diodes	8	150	200	0.95	5	35	SMC(DO-214AB)	ES8CF
BI8SF20	Ultrafast Recovery Diodes	8	200	200	0.95	5	35	SMC(DO-214AB)	ES8DF
BI8SF40	Ultrafast Recovery Diodes	8	400	200	1.25	5	35	SMC(DO-214AB)	ES8GF
BI8SF5	Ultrafast Recovery Diodes	8	50	200	0.95	5	35	SMC(DO-214AB)	ES8AF
BI8SF60	Ultrafast Recovery Diodes	8	600	200	1.7	5	35	SMC(DO-214AB)	ES8JF

Zener Diodes

Model / series	Function	Electrical characteristics	Package	Cross Reference
BI035Z2V4B~BI035Z43B	Zener Diodes	0.35W tolerance:±2%	SOT-23/SOD323	BZT52C2V4~BZT52C51
BI03Z2V4B~BI03Z51B	Zener Diodes	0.3W tolerance:±2%	SOT-23	BZX84C2V4~BZX84C51
BI05Z1V8~BI05Z43	Zener Diodes	0.5W tolerance:±10%	SOD-123	MMSZ4678~MMSZ4717
BI05Z2V4A~BI05Z100A	Zener Diodes	0.5W tolerance:±5%	SOT-23/SOD-123/SOT-23	BZX55C2V4~BZX55C100

Model / series	Function	Electrical characteristics	Package	Cross Reference
BI05Z2V4B~BI05Z36B	Zener Diodes	0.5W tolerance:±2%	SOD-123/SOD323	MMSZ5221B~MMSZ5258B
BI05Z2V7C~BI05Z36C	Zener Diodes	0.5W tolerance:±1%	SOD-123	1N5223B~1N5258B
BI1.5Z3V3A~BI1.5Z200A	Zener Diodes	1.5W tolerance:±5%	SMA	SMA5913A~SMA5956A
BI1Z3V3A~BI1Z100A	Zener Diodes	1W tolerance:±5%	SOT-23	1N4728~1N4762
BI2Z6V2A~BI2Z200A	Zener Diodes	2W tolerance:±5%	SMA	2EZ6.2~2EZ200
BI3Z3V3B~BI3Z200B	Zener Diodes	3W tolerance:±2%	SMA	SMA5913B~SMA5956B
BI3Z6V2~BI3Z200	Zener Diodes	3W tolerance:±10%	SMB	3EZ6.2~3EZ200
BI5Z5V1B~BI5Z51B	Zener Diodes	5W tolerance:±2%	SMB	SMBJ5338B~SMBJ5369B

Bipolar Transistors

Digital Transistors

Model / series	Function	Polarity	Power dissipation (W)	Collector current (A)	Voltage rating (V)	Current gain	On voltage (V)	R1 (kΩ)	R2 (kΩ)	Package	Cross Reference
BI114ECW	Digital Transistors	PNPNPN	0.15	0.1	5050	3030	0.30.3	1010	1010	SOT-563	—
BI114EDW	Digital Transistors	PNPNPN	0.15	0.1	5050	3030	0.30.3	1010	1010	SOT-363	—
BI114YCW	Digital Transistors	PNPNPN	0.15	0.1	5050	6868	0.30.3	1010	4747	SOT-563	—
BI114YDW	Digital Transistors	PNPNPN	0.15	0.1	5050	6868	0.30.3	1010	4747	SOT-363	—
BI123JCW	Digital Transistors	PNPNPN	0.15	0.1	5050	8080	0.30.3	2.22.2	4747	SOT-563	—
BI123JDW	Digital Transistors	PNPNPN	0.15	0.1	5050	8080	0.30.3	2.22.2	4747	SOT-363	—
BI124ECW	Digital Transistors	PNPNPN	0.15	0.1	5050	5656	0.30.3	2222	2222	SOT-563	—
BI124EDW	Digital Transistors	PNPNPN	0.15	0.1	5050	5656	0.30.3	2222	2222	SOT-363	—
BI143TCW	Digital Transistors	PNPNPN	0.15	0.1	5050	100100	0.30.3	4.74.7	—	SOT-563	—
BI143TDW	Digital Transistors	PNPNPN	0.15	0.1	5050	100100	0.30.3	4.74.7	—	SOT-363	—
BI143ZCW	Digital Transistors	PNPNPN	0.15	0.1	5050	8080	0.30.3	4.74.7	4747	SOT-563	—
BI143ZDW	Digital Transistors	PNPNPN	0.15	0.1	5050	8080	0.30.3	4.74.7	4747	SOT-363	—
BI144ECW	Digital Transistors	PNPNPN	0.15	0.1	5050	6868	0.30.3	4747	4747	SOT-563	—
BI144EDW	Digital Transistors	PNPNPN	0.15	0.1	5050	6868	0.30.3	4747	4747	SOT-363	—
BITA114E	Digital Transistors	PNP	0.2	0.1	50	30	0.3	10	10	SOT-23	—
BITA114ECW	Digital Transistors	Dual PNP	0.15	0.1	50	30	0.3	10	10	SOT-563	—
BITA114EG	Digital Transistors	PNP	0.2	0.1	50	30	0.3	10	10	SOT-323	—
BITA114EH	Digital Transistors	PNP	0.1	0.1	50	30	0.3	10	10	SOT-723	—
BITA114ET	Digital Transistors	PNP	0.15	0.1	50	30	0.3	10	10	SOT-523	—
BITA114TDW	Digital Transistors	Dual PNP	0.15	0.1	50	100	0.3	10	—	SOT-363	—
BITA114Y	Digital Transistors	PNP	0.2	0.1	50	68	0.3	10	47	SOT-23	—
BITA114YCW	Digital Transistors	Dual PNP	0.15	0.1	50	68	0.3	10	47	SOT-563	—
BITA114YG	Digital Transistors	PNP	0.2	0.1	50	68	0.3	10	47	SOT-323	—
BITA114YT	Digital Transistors	PNP	0.15	0.1	50	68	0.3	10	47	SOT-523	—
BITA123E	Digital Transistors	PNP	0.2	0.1	50	20	0.3	2.2	2.2	SOT-23	—
BITA123EG	Digital Transistors	PNP	0.2	0.1	50	20	0.3	2.2	2.2	SOT-323	—

Model / series	Function	Polarity	Power dissipation (W)	Collector current (A)	Voltage rating (V)	Current gain	On voltage (V)	R1 (kΩ)	R2 (kΩ)	Package	Cross Reference
BITA123ET	Digital Transistors	PNP	0.15	0.1	50	20	0.3	2.2	2.2	SOT-523	—
BITA123J	Digital Transistors	PNP	0.2	0.1	50	80	0.3	2.2	47	SOT-23	—
BITA123JG	Digital Transistors	PNP	0.2	0.1	50	80	0.3	2.2	47	SOT-323	—
BITA123JT	Digital Transistors	PNP	0.15	0.1	50	80	0.3	2.2	47	SOT-523	—
BITA124E	Digital Transistors	PNP	0.2	0.1	50	56	0.3	22	22	SOT-23	—
BITA124EG	Digital Transistors	PNP	0.2	0.1	50	56	0.3	22	22	SOT-323	—
BITA124ET	Digital Transistors	PNP	0.15	0.1	50	56	0.3	22	22	SOT-523	—
BITA143TDW	Digital Transistors	DualPNP	0.15	0.1	50	100	0.3	4.7	—	SOT-363	—
BITA143Z	Digital Transistors	PNP	0.2	0.1	50	80	0.3	4.7	47	SOT-23	—
BITA143ZG	Digital Transistors	PNP	0.2	0.1	50	80	0.3	4.7	47	SOT-323	—
BITA143ZT	Digital Transistors	PNP	0.15	0.1	50	80	0.3	4.7	47	SOT-523	—
BITA144E	Digital Transistors	PNP	0.2	0.1	50	68	0.3	47	47	SOT-23	—
BITA144EG	Digital Transistors	PNP	0.2	0.1	50	68	0.3	47	47	SOT-323	—
BITA144ET	Digital Transistors	PNP	0.15	0.1	50	68	0.3	47	47	SOT-523	—
BITC113Z	Digital Transistors	NPN	0.2	0.1	50	33	0.3	1	10	SOT-23	—
BITC113ZG	Digital Transistors	NPN	0.2	0.1	50	33	0.3	1	10	SOT-323	—
BITC113ZT	Digital Transistors	NPN	0.15	0.1	50	33	0.3	—	10	SOT-523	—
BITC114E	Digital Transistors	NPN	0.2	0.1	50	30	0.3	10	10	SOT-23	—
BITC114ECW	Digital Transistors	Dual NPN	0.15	0.1	50	30	0.3	10	10	SOT-563	—
BITC114EDW	Digital Transistors	Dual NPN	0.15	0.1	50	30	0.3	10	10	SOT-363	—
BITC114EG	Digital Transistors	NPN	0.2	0.1	50	30	0.3	10	10	SOT-323	—
BITC114EH	Digital Transistors	NPN	0.1	0.1	50	30	0.3	10	10	SOT-723	—
BITC114ET	Digital Transistors	NPN	0.15	0.1	50	30	0.3	10	10	SOT-523	—
BITC114T	Digital Transistors	NPN	0.2	0.1	50	100	0.3	10	—	SOT-23	—
BITC114TCW	Digital Transistors	Dual NPN	0.15	0.1	50	100	0.3	10	—	SOT-563	—
BITC114TDW	Digital Transistors	DualNPN	0.15	0.1	50	100	0.3	10	—	SOT-363	—
BITC114TG	Digital Transistors	NPN	0.2	0.1	50	100	0.3	10	—	SOT-323	—
BITC114TT	Digital Transistors	NPN	0.15	0.1	50	100	0.3	10	—	SOT-523	—
BITC114Y	Digital Transistors	NPN	0.2	0.1	50	68	0.3	10	47	SOT-23	—

Model / series	Function	Polarity	Power dissipation (W)	Collector current (A)	Voltage rating (V)	Current gain	On voltage (V)	R1 (kΩ)	R2 (kΩ)	Package	Cross Reference
BITC114YCW	Digital Transistors	Dual NPN	0.15	0.1	50	68	0.3	10	47	SOT-563	—
BITC114YDW	Digital Transistors	Dual NPN	0.15	0.1	50	68	0.3	10	47	SOT-363	—
BITC114YG	Digital Transistors	NPN	0.2	0.1	50	68	0.3	10	47	SOT-323	—
BITC114YT	Digital Transistors	NPN	0.15	0.1	50	89	0.3	10	47	SOT-523	—
BITC123E	Digital Transistors	NPN	0.2	0.1	50	20	0.3	2.2	2.2	SOT-23	—
BITC123EG	Digital Transistors	NPN	0.2	0.1	50	20	0.3	2.2	2.2	SOT-323	—
BITC123ET	Digital Transistors	NPN	0.15	0.1	50	20	0.3	2.2	2.2	SOT-523	—
BITC123J	Digital Transistors	NPN	0.2	0.1	50	80	0.3	2.2	47	SOT-23	—
BITC123JCW	Digital Transistors	Dual NPN	0.15	0.1	50	80	0.3	2.2	47	SOT-563	—
BITC123JDW	Digital Transistors	Dual NPN	0.15	0.1	50	80	0.3	2.2	47	SOT-363	—
BITC123JG	Digital Transistors	NPN	0.2	0.1	50	80	0.3	2.2	47	SOT-323	—
BITC123JT	Digital Transistors	NPN	0.15	0.1	50	80	0.3	2.2	47	SOT-523	—
BITC123Y	Digital Transistors	NPN	0.2	0.1	50	33	0.3	2.2	10	SOT-23	—
BITC123YG	Digital Transistors	NPN	0.2	0.1	50	33	0.3	2.2	10	SOT-323	—
BITC123YT	Digital Transistors	NPN	0.15	0.1	50	33	0.3	2.2	10	SOT-523	—
BITC124E	Digital Transistors	NPN	0.2	0.1	50	56	0.3	22	22	SOT-23	—
BITC124ECW	Digital Transistors	Dual NPN	0.15	0.1	50	56	0.3	22	22	SOT-563	—
BITC124EDW	Digital Transistors	Dual NPN	0.15	0.1	50	56	0.3	22	22	SOT-363	—
BITC124EF	Digital Transistors	NPN	0.25	0.1	50	56	0.3	22	22	DFN1006-3L	—
BITC124EG	Digital Transistors	NPN	0.2	0.1	50	56	0.3	22	22	SOT-323	—
BITC124ET	Digital Transistors	NPN	0.15	0.1	50	56	0.3	22	22	SOT-523	—
BITC143E	Digital Transistors	NPN	0.2	0.1	50	20	0.3	4.7	4.7	SOT-23	—
BITC143EG	Digital Transistors	NPN	0.2	0.1	50	20	0.3	4.7	4.7	SOT-323	—
BITC143ET	Digital Transistors	NPN	0.15	0.1	50	20	0.3	4.7	4.7	SOT-523	—
BITC143T	Digital Transistors	NPN	0.2	0.1	50	100	0.3	4.7	—	SOT-23	—
BITC143TCW	Digital Transistors	Dual NPN	0.15	0.1	50	100	0.3	4.7	'	SOT-563	—
BITC143TDW	Digital Transistors	DualNPN	0.15	0.1	50	100	0.3	4.7	—	SOT-363	—
BITC143TG	Digital Transistors	NPN	0.2	0.1	50	100	0.3	4.7	—	SOT-323	—
BITC143TT	Digital Transistors	NPN	0.15	0.1	50	100	0.3	4.7	—	SOT-523	—

Model / series	Function	Polarity	Power dissipation (W)	Collector current (A)	Voltage rating (V)	Current gain	On voltage (V)	R1 (kΩ)	R2 (kΩ)	Package	Cross Reference
BITC143X	Digital Transistors	NPN	0.2	0.1	50	30	0.3	4.7	10	SOT-23	—
BITC143XG	Digital Transistors	NPN	0.2	0.1	50	30	0.3	4.7	10	SOT-323	—
BITC143XT	Digital Transistors	NPN	0.15	0.1	50	30	0.3	4.7	10	SOT-523	—
BITC143Z	Digital Transistors	NPN	0.2	0.1	50	80	0.3	4.7	47	SOT-23	—
BITC143ZDW	Digital Transistors	Dual NPN	0.15	0.1	50	80	0.3	4.7	47	SOT-363	—
BITC143ZG	Digital Transistors	NPN	0.2	0.1	50	80	0.3	4.7	47	SOT-323	—
BITC143ZH	Digital Transistors	NPN	0.1	0.1	50	80	0.3	4.7	47	SOT-723	—
BITC143ZT	Digital Transistors	NPN	0.15	0.1	50	80	0.3	4.7	47	SOT-523	—
BITC144E	Digital Transistors	NPN	0.2	0.1	50	68	0.3	47	47	SOT-23	—
BITC144ECW	Digital Transistors	Dual NPN	0.15	0.1	50	68	0.3	47	47	SOT-563	—
BITC144EDW	Digital Transistors	Dual NPN	0.15	0.1	50	68	0.3	47	47	SOT-363	—
BITC144EG	Digital Transistors	NPN	0.2	0.1	50	68	0.3	47	47	SOT-323	—
BITC144ET	Digital Transistors	NPN	0.15	0.1	50	68	0.3	47	47	SOT-523	—
BITC144TDW	Digital Transistors	Dual NPN	0.15	0.1	50	100	0.3	47	—	SOT-363	—

General-purpose Bipolar Transistors

Model / series	Function	Power dissipation (W)	Collector current (A)	VCBO (V)	VCEO (V)	VEBO (V)	DC current gain	Transition frequency (MHz)	Polarity	Package	Cross Reference
BIT424T	General-purpose Bipolar Transistors	0.3	2	50	40	5	300~	100	NPN	SOT-23	PBSS424T
BIT491	General-purpose Bipolar Transistors	0.3	1	80	60	5	100~300	150	NPN	SOT-23	FMMT491
BIT49A	General-purpose Bipolar Transistors	0.3	1	60	40	5	300~900	150	NPN	SOT-23	PMMT49A
BIT8050H Listing 1	General-purpose Bipolar Transistors	0.3	0.8	40	25	5	200~350	150	NPN	SOT-23	S8050H
BIT8050H Listing 2	General-purpose Bipolar Transistors	0.32	1.5	40	25	5	200~350	100	NPN	SOT-23	SS8050H
BIT8050L Listing 1	General-purpose Bipolar Transistors	0.3	0.8	40	25	5	120~200	150	NPN	SOT-23	S8050L
BIT8050L Listing 2	General-purpose Bipolar Transistors	0.32	1.5	40	25	5	100~200	100	NPN	SOT-23	SS8050L

Model / series	Function	Power dissipation (W)	Collector current (A)	VCBO (V)	VCEO (V)	VEBO (V)	DC current gain	Transition frequency (MHz)	Polarity	Package	Cross Reference
BIT9013	General-purpose Bipolar Transistors	0.3	0.5	40	25	5	120~350	150	NPN	SOT-23	S9013
BITP1037Q	General-purpose Bipolar Transistors	0.2	-0.15	-60	-50	-6	120~270	140	PNP	SOT-23	2SA1037Q
BITP1037R	General-purpose Bipolar Transistors	0.2	-0.15	-60	-50	-6	180~390	140	PNP	SOT-23	2SA1037R
BITP1197P	General-purpose Bipolar Transistors	0.2	-0.8	-40	-32	-5	80~180	100	PNP	SOT-23	2SB1197P
BITP1197Q	General-purpose Bipolar Transistors	0.2	-0.8	-40	-32	-5	120~270	100	PNP	SOT-23	2SB1197Q
BITP1197R	General-purpose Bipolar Transistors	0.2	-0.8	-40	-32	-5	180~390	100	PNP	SOT-23	2SB1197R
BITP1198R	General-purpose Bipolar Transistors	0.2	-0.5	-100	-80	-5	180~390	180	PNP	SOT-23	2SB1198R
BITP807Q	General-purpose Bipolar Transistors	0.3	-0.5	-50	-45	-5	100~250	100	PNP	SOT-23	2BC807Q
BITP812M4	General-purpose Bipolar Transistors	0.2	-0.1	-60	-50	-5	90~180	180	PNP	SOT-23	2SA812M4
BITP812M5	General-purpose Bipolar Transistors	0.2	-0.1	-60	-50	-5	135~270	180	PNP	SOT-23	2SA812M5
BITP812M6	General-purpose Bipolar Transistors	0.2	-0.1	-60	-50	-5	200~400	180	PNP	SOT-23	2SA812M6
BITP9014	General-purpose Bipolar Transistors	0.2	0.1	50	40	5	200~560	300	PNP	SOT-23	S9014

NPN Transistors

Model / series	Function	Power dissipation (W)	Collector current (A)	VCBO (V)	VCEO (V)	VEBO (V)	DC current gain	Transition frequency (MHz)	Package	Cross Reference
BITA1623	NPN Transistors	0.2	0.1	60	50	5	120~270	250	SOT-23	2SC1623A
BITA817	NPN Transistors	0.3	0.5	50	45	5	100~250	100	SOT-23	BC817A
BITA818	NPN Transistors	0.3	0.5	30	25	5	100~250	170	SOT-23	BC818A
BITA846	NPN Transistors	0.2	0.1	80	65	6	110~220	100	SOT-23	BC846A
BITA847	NPN Transistors	0.2	0.1	50	45	6	110~220	100	SOT-23	BC847A
BITB1623	NPN Transistors	0.2	0.1	60	50	5	200~400	250	SOT-23	2SC1623B
BITB817	NPN Transistors	0.3	0.5	50	45	5	160~400	100	SOT-23	BC817B
BITB818	NPN Transistors	0.3	0.5	30	25	5	160~400	170	SOT-23	BC818B

Model / series	Function	Power dissipation (W)	Collector current (A)	VCBO (V)	VCEO (V)	VEBO (V)	DC current gain	Transition frequency (MHz)	Package	Cross Reference
BITB846	NPN Transistors	0.2	0.1	80	65	6	200~450	100	SOT-23	BC846B
BITC1623	NPN Transistors	0.2	0.1	60	50	5	270~560	250	SOT-23	2SC1623C
BITC817	NPN Transistors	0.3	0.5	50	45	5	250~600	100	SOT-23	BC817C
BITC818	NPN Transistors	0.3	0.5	30	25	5	250 ~600	170	SOT-23	BC818C
BITE3052	NPN Transistors	0.15	0.2	60	50	6	150~300	180	SOT-23	2SC3052E
BITF3052	NPN Transistors	0.15	0.2	60	50	6	250~500	180	SOT-23	2SC3052F
BITG3052	NPN Transistors	0.15	0.2	60	50	6	400~800	180	SOT-23	2SC3052G
BITQ1781	NPN Transistors	0.2	0.8	40	32	5	120~270	100	SOT-23	2SD1781Q
BITQ2412	NPN Transistors	0.2	0.15	60	50	7	120~270	160	SOT-23	2SC24120
BITR1781	NPN Transistors	0.2	0.8	40	32	5	180~390	100	SOT-23	2SD1781R
BITR1782	NPN Transistors	0.2	0.5	100	80	5	180~390	180	SOT-23	2SD1782R
BITR2412	NPN Transistors	0.2	0.15	60	50	7	180~390	160	SOT-23	2SC2412R
BITS2412	NPN Transistors	0.2	0.15	60	50	7	270~560	160	SOT-23	2SC2412S

PNP Transistors

Model / series	Function	Power dissipation (W)	Collector current (A)	VCBO (V)	VCEO (V)	VEBO (V)	DC current gain	Transition frequency (MHz)	Polarity	Package	Cross Reference
BIT4130	PNP Transistors	0.3	1	40	30	5	300~	100	—	SOT-23	PBSS4130T
BIT414	PNP Transistors	0.3	1	50	40	5	300~	100	—	SOT-23	PBSS414T
BIT4230	PNP Transistors	0.3	2	40	30	5	300~	100	—	SOT-23	PBSS4230T
BIT5551	PNP Transistors	0.3	0.6	180	160	6	100~300	100	—	SOT-23	MHRT5551
BITA05	PNP Transistors	0.3	0.5	75	60	4	100~350	100	—	SOT-23	MHRTA05
BITA06	PNP Transistors	0.3	0.5	100	80	4	100~350	100	—	SOT-23	MHRTA06
BITA3904	PNP Transistors	0.35	0.2	60	40	9	100~300	300	—	SOT-23	MHRTA3904
BITA42	PNP Transistors	0.35	0.5	320	300	5	40~300	50	—	SOT-23	MHRTA42
BITA44	PNP Transistors	0.35	0.2	420	400	6	40~200	50	—	SOT-23	MHRTA44
BITA848	PNP Transistors	0.2	0.1	40	30	6	110~220	100	—	SOT-23	BC848A
BITB847	PNP Transistors	0.2	0.1	50	45	6	200~450	100	—	SOT-23	BC847B
BITB848	PNP Transistors	0.2	0.1	40	30	6	200~450	100	—	SOT-23	BC848B

Model / series	Function	Power dissipation (W)	Collector current (A)	VCBO (V)	VCEO (V)	VEBO (V)	DC current gain	Transition frequency (MHz)	Polarity	Package	Cross Reference
BITC847	PNP Transistors	0.2	0.1	50	45	6	420~800	100	—	SOT-23	BC847C
BITC848	PNP Transistors	0.2	0.1	40	30	9	420~800	100	—	SOT-23	BC848C
BITP2097	PNP Transistors	0.3	-0.6	-75	-60	-5	100~300	200	—	SOT-23	MHRT2907A
BITP3906 Listing 1	PNP Transistors	0.3	-0.2	-50	-40	-5	100~300	250	—	SOT-23	MHRT3906
BITP3906 Listing 2	PNP Transistors	0.225	-0.2	-60	-40	Confirmation pending	Confirmation pending	Confirmation pending	PNP	SOT-23	MHRT3906
BITP4403 Listing 1	PNP Transistors	0.3	-0.6	-50	-40	-5	100~300	200	—	SOT-23	MHRT4403
BITP4403 Listing 2	PNP Transistors	0.225	-0.6	-60	-40	Confirmation pending	Confirmation pending	Confirmation pending	PNP	SOT-23	MHRT4403
BITP5130	PNP Transistors	0.3	-1	-40	-30	-5	300~	100	—	SOT-23	PBSS5130T
BITP5140	PNP Transistors	0.3	-1	-50	-40	-5	300~	100	—	SOT-23	PBSS5140T
BITP5230	PNP Transistors	0.3	-2	-40	-30	-5	300~	100	—	SOT-23	PBSS5230T
BITP5240	PNP Transistors	0.3	-2	-50	-40	-5	300~	100	—	SOT-23	PBSS5240T
BITP5401	PNP Transistors	0.3	-0.6	-180	-160	-6	100~330	100	—	SOT-23	MHRR5401
BITP591 Listing 1	PNP Transistors	0.3	-1	-80	-60	-5	100~300	150	—	SOT-23	FMMT591
BITP591 Listing 2	PNP Transistors	0.3	-1	-50	-40	-5	300~800	150	—	SOT-23	PMMT591A
BITP9012	PNP Transistors	0.3	-0.5	-40	-25	-5	120~350	150	—	SOT-23	S9012
BITP9015	PNP Transistors	0.2	-0.1	-60	-45	-5	180~800	150	—	SOT-23	S9015
BITPA55	PNP Transistors	0.225	-0.5	-70	-60	-4	80~200	250	—	SOT-23	MHRTA55
BITPA56	PNP Transistors	0.225	-0.5	-90	-80	-4	80~200	250	—	SOT-23	MHRTA56
BITPA856	PNP Transistors	0.2	-0.1	-80	-65	-6	125~250	100	—	SOT-23	BC856A
BITPA857	PNP Transistors	0.2	-0.1	-50	-45	-6	125~250	100	—	SOT-23	BC857A
BITPA858	PNP Transistors	0.2	-0.1	-40	-30	-6	125~250	100	—	SOT-23	BC858A
BITPA92	PNP Transistors	0.3	-0.3	-320	-300	-5	100~200	50	—	SOT-23	MHRTA92
BITPB856	PNP Transistors	0.2	-0.1	-80	-65	-6	220~475	100	—	SOT-23	BC856B
BITPB857	PNP Transistors	0.2	-0.1	-50	-45	-6	220~475	100	—	SOT-23	BC857B
BITPB858	PNP Transistors	0.2	-0.1	-40	-30	-6	220~475	100	—	SOT-23	BC858B
BITPH850	PNP Transistors	0.3	-0.5	-40	-25	-5	200~350	150	—	SOT-23	S8550H

Model / series	Function	Power dissipation (W)	Collector current (A)	VCBO (V)	VCEO (V)	VEBO (V)	DC current gain	Transition frequency (MHz)	Polarity	Package	Cross Reference
BITPH8550	PNP Transistors	0.3	-1.5	-40	-25	-5	160~300	100	—	SOT-23	SS8550H
BITPL850	PNP Transistors	0.3	-0.5	-40	-25	-5	120~200	150	—	SOT-23	S8550L
BITPL8550	PNP Transistors	0.3	-1.5	-40	-25	-5	120~200	100	—	SOT-23	SS8550L
BITPR807	PNP Transistors	0.3	-0.5	-50	-45	-5	160~400	100	—	SOT-23	BC807R
BITPS807	PNP Transistors	0.3	-0.5	-50	-45	-6	250~600	100	—	SOT-23	BC807S

RF Transistors

Model / series	Function	Power dissipation (W)	Collector current (A)	VCBO (V)	VCEO (V)	VEBO (V)	DC current gain	Transition frequency (MHz)	Polarity	Package	Cross Reference
BIT3356G	RF Transistors	0.2	0.1	20	12	3	82~270	7	NPN	SOT-23	2SC3356G
BIT3356RG	RF Transistors	0.2	0.1	20	9	3	75~290	7	NPN	SOT-23	2SC3356RG
BIT3837G	RF Transistors	0.2	0.05	30	18	3	56~180	1.5	NPN	SOT-23	2SG3837G
BIT3838G	RF Transistors	0.2	0.05	20	11	3	56~180	3.2	NPN	SOT-23	2SC3838G
BIT9018	RF Transistors	0.2	0.05	30	15	4	70~200	0.8	NPN	SOT-23	HS9018

Switching Transistors

Model / series	Function	Power dissipation (W)	Collector current (A)	VCBO (V)	VCEO (V)	VEBO (V)	DC current gain	Transition frequency (MHz)	Polarity	Package	Cross Reference
BIT2222	Switching Transistors	0.225	0.6	75	40	Confirmation pending	Confirmation pending	Confirmation pending	NPN	SOT-23	MHRT2222A
BIT2907	Switching Transistors	0.225	-0.6	-75	-60	Confirmation pending	Confirmation pending	Confirmation pending	PNP	SOT-23	MHRT2907A
BIT3904	Switching Transistors	0.225	0.2	60	40	Confirmation pending	Confirmation pending	Confirmation pending	NPN	SOT-23	MHRT3904
BIT3908	Switching Transistors	0.225	0.2	60	40	Confirmation pending	Confirmation pending	Confirmation pending	NPN	SOT-23	MHRT3908
BIT4401	Switching Transistors	0.225	0.6	60	40	Confirmation pending	Confirmation pending	Confirmation pending	NPN	SOT-23	MHRT4401