

**DIODES** General Purpose and Schottky Diodes  
Schottky Barrier Rectifiers (Cont.)



Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
<b>PowerDi™5 — RoHS Compliant</b>												
7	3.0	40	90	0.5	0.49	PDS340DICT-ND	.94	8.43	66.91	PDS340DITR-ND	5,000	329.62/M
	3.0	60	100	0.15	0.62	PDS360DICT-ND	1.13	10.11	80.30	PDS360DITR-ND	5,000	395.54/M
	3.0	100	90	0.1	0.75	PDS3100DICT-ND	1.07	9.55	75.84	PDS3100DITR-ND	5,000	373.57/M
	3.0	200	180	0.01	0.78	PDS3200DICT-ND	1.50	13.48	107.06	PDS3200DITR-ND	5,000	527.39/M
	4.0	150	180	0.01	0.76	PDS4150DICT-ND	1.50	13.48	107.06	PDS4150DITR-ND	5,000	527.39/M
	5.0	40	120	0.25	0.52	PDS540DICT-ND	1.13	10.11	80.30	PDS540DITR-ND	5,000	395.54/M
	5.0	40	110	0.2	0.50	PDS1040CTLDICT-ND	1.48	12.64	103.22	PDS1040CTLDITR-ND	5,000	547.71/M
	5.0	60	120	0.15	0.67	PDS560DICT-ND	1.26	11.23	89.22	PDS560DITR-ND	5,000	439.49/M
	5.0	100	120	0.2	0.79	PDS5100DICT-ND	1.32	11.80	93.68	PDS5100DITR-ND	5,000	461.46/M
	5.0	100	250	0.0035	0.71	PDS5100HDICT-ND	1.50	13.48	107.06	PDS5100HDITR-ND	5,000	527.39/M
	7.0	60	275	0.2	0.62	PDS760DICT-ND	1.41	12.64	100.37	PDS760DITR-ND	5,000	494.42/M
	8.0	35	120	1.4	0.51	PDS835LDICT-ND	1.26	11.23	89.22	PDS835LDITR-ND	5,000	439.49/M
10.0	40	275	0.7	0.51	PDS1040DICT-ND	1.10	9.83	78.07	PDS1040DITR-ND	5,000	384.55/M	
10.0	40	275	0.6	0.46	PDS1040LDICT-ND	1.10	9.83	78.07	PDS1040LDITR-ND	5,000	384.55/M	
10.0	45	275	0.6	0.51	PDS1045DICT-ND	1.41	12.64	100.37	PDS1045DITR-ND	5,000	494.42/M	
<b>PowerDi®323 — RoHS Compliant</b>												
8	1.0	20	33	0.16	0.42	PD3S120LDICT-ND	.55	4.36	32.71	PD3S120LDITR-ND	3,000	153.66/M
	1.0	30	22	0.1	0.45	PD3S130HDICT-ND	.45	3.63	27.26	PD3S130HDITR-ND	3,000	128.05/M
	1.0	30	22	1.5	0.42	PD3S130LDICT-ND	.55	4.36	32.71	PD3S130LDITR-ND	3,000	153.66/M
	1.0	40	22	0.05	0.55	PD3S140DICT-ND	.41	3.27	24.54	PD3S140DITR-ND	3,000	115.66/M
	1.0	60	22	0.05	0.64	PD3S160DICT-ND	.45	3.63	27.26	PD3S160DITR-ND	3,000	128.05/M
<b>POWERMITE®3</b>												
9	3.0	40	50	0.5	0.50	SBM340-FDICT-ND	1.21	10.88	86.37	—	—	—
	3.0	60	50	0.2	0.63	MBRM360DICT-ND	.87	7.73	61.42	—	—	—
	3.0	100	50	0.1	0.76	MBRM3100-FDICT-ND	1.52	13.03	106.43	—	—	—
	5.0	60	100	0.2	0.69	MBRM560DICT-ND	1.08	9.67	76.77	—	—	—
	5.0	100	100	0.2	0.81	MBRM5100-FDICT-ND	1.59	13.67	111.66	—	—	—
<b>D2PAK — RoHS Compliant</b>												
10A	10.0	25	200	1.0	0.45	SBG1025L-T-FDICT-ND	1.48	12.64	103.22	SBG1025L-T-FDITR-ND	800	530.85
10B	10.0	30	125	1.0	0.55	SBG1030CT-T-FDICT-ND	.88	7.53	59.48	SBG1030CT-T-FDITR-ND	800	277.57
	10.0	35	125	1.0	0.55	SBG1035CT-T-FDICT-ND	1.54	13.13	107.27	—	—	—
	10.0	40	125	1.0	0.55	SBG1040CT-T-FDICT-ND	1.26	11.23	89.22	SBG1040CT-T-FDITR-ND	800	438.82
	10.0	45	125	1.0	0.55	SBG1045CT-T-FDICT-ND	1.59	13.63	111.32	SBG1045CT-T-FDITR-ND	800	572.49
	15.0	35	150	0.1	0.7	MBRB1535CTDICT-ND	1.30	11.11	90.72	—	—	—
	15.0	40	150	0.1	0.7	MBRB1540CTDICT-ND	1.54	13.13	107.27	MBRB1540CTDITR-ND	800	551.67
	15.0	45	150	0.1	0.7	MBRB1545CTDICT-ND	1.56	13.38	109.29	MBRB1545CTDITR-ND	800	562.08
	16.0	30	175	1.0	0.55	SBG1630CT-T-FDICT-ND	1.62	13.88	113.34	SBG1630CT-T-FDITR-ND	800	582.90
	16.0	35	175	1.0	0.55	SBG1635CT-T-FDICT-ND	1.65	14.13	115.36	SBG1635CT-T-FDITR-ND	800	593.31
	16.0	40	175	1.0	0.55	SBG1640CT-T-FDICT-ND	1.68	14.37	117.39	SBG1640CT-T-FDITR-ND	800	604.04
	16.0	45	175	1.0	0.55	SBG1645CT-T-FDICT-ND	.94	8.43	66.91	SBG1645CT-T-FDITR-ND	800	329.12
	20.0	30	225	1.0	0.55	SBG2030CT-T-FDICT-ND	1.22	10.95	86.99	SBG2030CT-T-FDITR-ND	800	427.85
	20.0	35	225	1.0	0.55	SBG2035CT-T-FDICT-ND	1.79	15.37	125.48	SBG2035CT-T-FDITR-ND	800	645.35
	20.0	40	225	1.0	0.55	SBG2040CT-T-FDICT-ND	1.22	10.95	86.99	SBG2040CT-T-FDITR-ND	800	427.85
	20.0	45	225	1.0	0.55	SBG2045CT-T-FDICT-ND	1.22	10.95	86.99	SBG2045CT-T-FDITR-ND	800	427.85
	30.0	30	250	1.0	0.55	SBG3030CT-T-FDICT-ND	1.73	14.87	121.44	SBG3030CT-T-FDITR-ND	800	624.53
	30.0	45	250	1.0	0.55	SBG3045CT-T-FDICT-ND	2.49	21.31	174.06	SBG3045CT-T-FDITR-ND	800	895.16
	30.0	50	250	1.0	0.70	SBG3050CT-T-FDICT-ND	2.52	21.56	176.08	SBG3050CT-T-FDITR-ND	800	905.57
30.0	60	250	1.0	0.70	SBG3060CTDICT-ND	2.30	19.65	160.50	—	—	—	
30.0	60	250	1.0	0.70	SBG3060CT-T-FDICT-ND	2.54	21.81	178.11	SBG3060CT-T-FDITR-ND	800	915.98	
<b>SOD-123 — RoHS Compliant</b>												
11	0.5	20	5.5	—	0.300	B0520LW-FDICT-ND	.40	2.81	16.85	B0520LW-FDITR-ND	3,000	56.18/M
	0.5	30	5.5	0.13	0.375	B0530W-FDICT-ND	.40	2.81	16.85	B0530W-FDITR-ND	3,000	56.18/M
	0.5	40	5.5	0.02	0.510	B0540W-FDICT-ND	.40	2.81	16.85	B0540W-FDITR-ND	3,000	56.18/M
	1.0	30	12	1.0	0.42	B130LAW-FDICT-ND	.55	4.36	32.71	B130LAW-FDITR-ND	3,000	153.66/M
	1.0	40	6.6	0.04	0.55	B140HWDICT-ND	.55	4.36	32.71	B140HWDITR-ND	3,000	153.66/M
	1.0	40	25	1.0	0.320	1N5819HW-FDICT-ND	.40	2.79	18.59	1N5819HW-FDITR-ND	3,000	66.92/M
<b>SOD-323 — RoHS Compliant</b>												
12	0.1	45	1.0	0.001	0.45	SDM10K45-FDICT-ND	.52	3.51	16.52	SDM10K45-FDITR-ND	3,000	48.54/M
<b>SOD-523 — RoHS Compliant</b>												
13	0.1	45	1.0†	0.001	0.55	SDM10U45-FDICT-ND	.52	3.51	16.52	SDM10U45-FDITR-ND	3,000	48.54/M
<b>TO-220AC — RoHS Compliant</b>												
14	16.0	45	150	0.2	0.63	MBR1645DI-ND†	1.21	10.76	85.01	—	—	—
	16.0	45	275	1.0	0.57	SBL1645DI-ND†	1.59	14.34	115.24	—	—	—
<b>TO-220AB — RoHS Compliant</b>												
15	10.0	45	250	10.0	0.60	SBL1045CTDI-ND†	1.46	13.18	105.95	—	—	—
	16.0	45	250	0.5	0.55	SBL1645CTDI-ND†	1.69	15.27	122.68	—	—	—
	20.0	45	250	20.0	0.60	SBL2045CTDI-ND†	1.79	16.19	130.11	—	—	—
	30.0	45	250	1.0	0.55	SBL3045CTDI-ND†	2.00	18.04	144.98	—	—	—
<b>ITO-220S — RoHS Compliant</b>												
15	10.0	45	150	—	0.65	MBR2045CTPDI-ND†	1.50	13.32	105.25	—	—	—
	10.0	60	170	—	0.8	MBR2060CTPDI-ND†	1.39	12.29	97.15	—	—	—
	15.0	45	250	—	0.65	MBR3045CTPDI-ND†	1.54	13.88	111.52	—	—	—
	15.0	60	250	—	0.75	MBR3060CTPDI-ND†	1.84	16.65	133.83	—	—	—
<b>TO-3P — RoHS Compliant</b>												
16	60.0	45	500	1.0	0.75	MBR6045PTDI-ND†	3.42	30.57	250.64	—	—	—
<b>SOT-23 — RoHS Compliant</b>												
17	0.75	28	5.5	-100	0.65	BAT750CT-ND	.40	2.85	19.00	BAT750TR-ND	3,000	68.57/M
	1.0	40	5.5	-10	0.60	BAT1000-7-FDICT-ND	.55	4.36	32.71	BAT1000-7-FDITR-ND	3,000	153.66/M

◆ RoHS Compliant † Tube ‡ Tested at ts10ms

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 13 — SOD-523

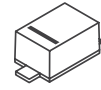


Fig. 14 — TO-220AC

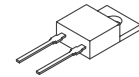


Fig. 15 — TO-220AB, ITO-220S

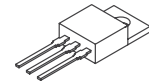


Fig. 16 — TO-3P

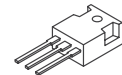


Fig. 17 — SOT-23

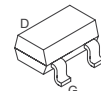


Fig. 18 — DFN1006-2, DFN1006H4-2

