

Breakdown Voltage VBR @ IT			IT (mA)	Reverse Standoff Voltage (VRWM)	Reverse DC Leakage Current @ VRWM (µA)	Watts	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Diodes Part No.
Min. (V)	Nom. (V)	Max. (V)						1	10	100		Qty.	Pricing	
Fig. 3 — SMA, Unidirectional — RoHS Compliant														
64.4	—	71.2	1	58	5.0	400	SMAJ58A-13-FDICT-ND	45	3.54	24.16	SMAJ58A-13-FDITR-ND	5,000	95.83/M	SMAJ58A-13-F
Fig. 3 — SMB, Unidirectional — RoHS Compliant														
77.8	—	89.5	1	70	5.0	600	SMBT70A-13-FDICT-ND	59	4.73	35.44	SMBT70A-13-FDITR-ND	3,000	166.88/M	SMBT70A-13-F
Fig. 3 — SMC, Unidirectional — RoHS Compliant														
6.40	—	7.07	10	5.0	1000	3000	3.0SMCJ5.0ADICT-ND	1.38	12.36	98.14	3.0SMCJ5.0ADITR-ND	3,000	508.88/M	3.0SMCJ5.0A-13
22.20	—	24.5	1	20.0	5.0	3000	3.0SMCJ20ADICT-ND	.88	7.86	62.45	3.0SMCJ20ADITR-ND	3,000	323.83/M	3.0SMCJ20A-13
24.40	—	27.0	1	22.0	5.0	3000	3.0SMCJ22ADICT-ND	1.38	12.36	98.14	3.0SMCJ22ADITR-ND	3,000	508.88/M	3.0SMCJ22A-13
26.70	—	29.5	1	24.0	5.0	3000	3.0SMCJ24ADICT-ND	1.38	12.36	98.14	3.0SMCJ24ADITR-ND	3,000	508.88/M	3.0SMCJ24A-13
31.10	—	34.4	1	28.0	5.0	3000	3.0SMCJ28ADICT-ND	1.38	12.36	98.14	3.0SMCJ28ADITR-ND	3,000	508.88/M	3.0SMCJ28A-13
33.30	—	36.8	1	30.0	5.0	3000	3.0SMCJ30ADICT-ND	1.38	12.36	98.14	3.0SMCJ30ADITR-ND	3,000	508.88/M	3.0SMCJ30A-13
64.40	—	71.2	1	58.0	5.0	3000	3.0SMCJ58ADICT-ND	1.38	12.36	98.14	3.0SMCJ58ADITR-ND	3,000	508.88/M	3.0SMCJ58A-13
Fig. 4 — SOD-323, Unidirectional — RoHS Compliant														
6.2	—	7.3	1	5.0	10	350	SD05DICT-ND	.37	2.64	15.86	SD05DITR-ND	3,000	52.87/M	SD05-7
Fig. 5 — SOD-523, Unidirectional — RoHS Compliant														
6.2	—	—	1	5.0	0.05	260	T5V0S5DICT-ND	.36	2.83	19.33	T5V0S5DITR-ND	3,000	81.79/M	T5V0S5-7
14.1	—	—	1	12	0.01	300	T12S5DICT-ND	.45	3.54	24.16	T12S5DITR-ND	3,000	102.44/M	T12S5-7
Fig. 7 — SOT-553, TVS Array — RoHS Compliant														
5.3	5.6	5.9	1	3.0	1	20	DZQA5V6AXV5DICT-ND	.36	2.83	19.33	DZQA5V6AXV5DITR-ND	3,000	81.79/M	DZQA5V6AXV5-7
6.47	6.8	7.14	1	4.3	1	20	DZQA6V8AXV5-7DICT-ND	.36	2.83	19.33	DZQA6V8AXV5-7DITR-ND	3,000	81.79/M	DZQA6V8AXV5-7
Fig. 7 — 2 DFN, Unidirectional — RoHS Compliant														
6.4	—	7.2	5	5.0	0.5	85	TPD6V8LP-7DICT-ND	.36	2.83	19.33	TPD6V8LP-7DITR-ND	3,000	81.79/M	TPD6V8LP-7
Fig. 8 — SOT-953 — RoHS Compliant														
11.4	12	12.7	5	9.0	0.5	18	DUP412VP5-7DICT-ND	.51	4.01	27.39	DUP412VP5-7DITR-ND	10,000	101.61/M	DUP412VP5-7
Fig. 9 — SOT-23 — RoHS Compliant														
6.2	—	7.3	1	5.0	10	300	SM05-7DICT-ND	.49	3.47	20.82	SM05-7DITR-ND	3,000	69.40/M	SM05-7

◆ RoHS Compliant

SMB Bi-Directional Thyristor Surge Protection Device



Features: • 58V - 320V Stand-Off Voltages • Oxide-Glass Passivated Junction • Bidirectional protection in a single device • High Off-State Impedance and Low On-State Voltage **Mechanical Data:** • Case: SMB, Molded plastic • Case Material: UL Flammability Classification Rating 94V-0

Non-Repetitive Peak Impulse Current (A) 10/100µs	Rated Repetitive Off-State Volt. VDRM (V)	Off-State Leakage Current @ VDRM IDRM (µA)	Breakover Voltage VBO (V)	Holding Current IH (mA)		Off-State Capacitance Co (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	Diodes Part No.
				Min.	Max.			1	10	100			
30	58	5	77	150	800	100	TB0640L-FDICT-ND◆	.88	.79	.63	TB0640L-FDITR-ND◆	323.83/M	TB0640L-13-F
	65	5	88	150	800	100	TB0720L-FDICT-ND◆	.88	.79	.63	TB0720L-FDITR-ND◆	323.83/M	TB0720L-13-F
	75	5	98	150	800	100	TB0900L-FDICT-ND◆	.76	.68	.54	—	—	TB0900L-13
	75	5	98	150	800	100	TB0900L-FDICT-ND◆	.88	.79	.63	TB0900L-FDITR-ND◆	323.83/M	TB0900L-13-F
	90	5	130	150	800	60	TB1100L-FDICT-ND◆	.76	.68	.54	—	—	TB1100L-13
	90	5	130	150	800	60	TB1100L-FDICT-ND◆	.88	.79	.63	TB1100L-FDITR-ND◆	323.83/M	TB1100L-13-F
	120	5	160	150	800	60	TB1300L-FDICT-ND◆	.76	.68	.54	—	—	TB1300L-13-F
	140	5	180	150	800	60	TB1500L-FDICT-ND◆	.76	.68	.54	—	—	TB1500L-13
	140	5	180	150	800	60	TB1500L-FDICT-ND◆	.88	.79	.63	TB1500L-FDITR-ND◆	323.83/M	TB1500L-13-F
	160	5	220	150	800	60	TB1800L-FDICT-ND◆	.76	.68	.54	—	—	TB1800L-13
	160	5	220	150	800	60	TB1800L-FDICT-ND◆	.76	.68	.54	—	—	TB1800L-13-F
	190	5	265	150	800	40	TB2300L-FDICT-ND◆	.76	.68	.54	—	—	TB2300L-13
	190	5	265	150	800	40	TB2300L-FDICT-ND◆	.88	.79	.63	TB2300L-FDITR-ND◆	323.83/M	TB2300L-13-F
	220	5	300	150	800	40	TB2600L-FDICT-ND◆	.76	.68	.54	—	—	TB2600L-13
	220	5	300	150	800	40	TB2600L-FDICT-ND◆	.88	.79	.63	TB2600L-FDITR-ND◆	323.83/M	TB2600L-13-F
	50	58	5	77	150	800	140	TB0640MDICT-ND◆	.81	.73	.58	—	—
58		5	77	150	800	140	TB0640MDICT-ND◆	.94	.85	.67	TB0640M-FDITR-ND◆	346.97/M	TB0640M-13-F
65		5	88	150	800	140	TB0720MDICT-ND◆	.81	.73	.58	—	—	TB0720M-13
65		5	88	150	800	140	TB0720MDICT-ND◆	.94	.85	.67	TB0720M-FDITR-ND◆	346.97/M	TB0720M-13-F
75		5	98	150	800	140	TB0900MDICT-ND◆	.81	.73	.58	—	—	TB0900M-13
75		5	98	150	800	140	TB0900MDICT-ND◆	.94	.85	.67	TB0900M-FDITR-ND◆	346.97/M	TB0900M-13-F
90		5	130	150	800	90	TB1100M-FDICT-ND◆	.94	.85	.67	TB1100M-FDITR-ND◆	346.97/M	TB1100M-13-F
120		5	160	150	800	90	TB1300M-FDICT-ND◆	.94	.85	.67	TB1300M-FDITR-ND◆	346.97/M	TB1300M-13-F
140		5	180	150	800	90	TB1500MDICT-ND◆	.81	.73	.58	—	—	TB1500M-13
140		5	180	150	800	90	TB1500M-FDICT-ND◆	.94	.85	.67	TB1500M-FDITR-ND◆	346.97/M	TB1500M-13-F
160		5	220	150	800	90	TB1800MDICT-ND◆	.81	.73	.58	—	—	TB1800M-13
160		5	220	150	800	90	TB1800M-FDICT-ND◆	.94	.85	.67	TB1800M-FDITR-ND◆	346.97/M	TB1800M-13-F
190		5	265	150	800	60	TB2300MDICT-ND◆	.81	.73	.58	—	—	TB2300M-13
190		5	265	150	800	60	TB2300M-FDICT-ND◆	.94	.85	.67	TB2300M-FDITR-ND◆	346.97/M	TB2300M-13-F
220		5	300	150	800	60	TB2600MDICT-ND◆	.81	.73	.58	—	—	TB2600M-13
220		5	300	150	800	60	TB2600M-FDICT-ND◆	.94	.85	.67	TB2600M-FDITR-ND◆	346.97/M	TB2600M-13-F
100	58	5	77	150	800	200	TB0640HDICT-ND◆	.89	.80	.64	—	—	TB0640H-13
	58	5	77	150	800	200	TB0640HDICT-ND◆	1.03	.93	.74	TB0640H-FDITR-ND◆	381.66/M	TB0640H-13-F
	65	5	88	150	800	200	TB0720HDICT-ND◆	.89	.80	.64	—	—	TB0720H-13-F
	65	5	88	150	800	200	TB0720HDICT-ND◆	.89	.80	.64	—	—	TB0900H-13
	75	5	98	150	800	200	TB0900HDICT-ND◆	.89	.80	.64	—	—	TB0900H-13-F
	75	5	98	150	800	200	TB0900HDICT-ND◆	1.03	.93	.74	TB0900H-FDITR-ND◆	381.66/M	TB0900H-13-F
	90	5	130	150	800	120	TB1100H-FDICT-ND◆	1.03	.93	.74	TB1100H-FDITR-ND◆	381.66/M	TB1100H-13-F
	120	5	160	150	800	120	TB1300HDICT-ND◆	.89	.80	.64	—	—	TB1300H-13
	120	5	160	150	800	120	TB1300H-FDICT-ND◆	1.03	.93	.74	TB1300H-FDITR-ND◆	381.66/M	TB1300H-13-F
	140	5	180	150	800	120	TB1500HDICT-ND◆	.89	.80	.64	—	—	TB1500H-13
	140	5	180	150	800	120	TB1500H-FDICT-ND◆	1.03	.93	.74	TB1500H-FDITR-ND◆	381.66/M	TB1500H-13-F
	160	5	220	150	800	120	TB1800HDICT-ND◆	.89	.80	.64	—	—	TB1800H-13
	160	5	220	150	800	120	TB1800H-FDICT-ND◆	1.03	.93	.74	TB1800H-FDITR-ND◆	381.66/M	TB1800H-13-F
	190	5	265	150	800	80	TB2300HDICT-ND◆	.89	.80	.64	—	—	TB2300H-13
	190	5	265	150	800	80	TB2300H-FDICT-ND◆	1.03	.93	.74	TB2300H-FDITR-ND◆	381.66/M	TB2300H-13-F
	220	5	300	150	800	80	TB2600HDICT-ND◆	.89	.80	.64	—	—	TB2600H-13
220	5	300	150	800	80	TB2600H-FDICT-ND◆	1.03	.93	.74	TB2600H-FDITR-ND◆	381.66/M	TB2600H-13-F	
275	5	350	150	800	80	TB3100HDICT-ND◆	.89	.80	.64	—	—	TB3100H-13	
275	5	350	150	800	80	TB3100H-FDICT-ND◆	1.03	.93	.74	TB3100H-FDITR-ND◆	381.66/M	TB3100H-13-F	
320	5	400	150	800	80	TB3500HDICT-ND◆	.89	.80	.64	—	—	TB3500H-13	
320	5	400	150	800	80	TB3500H-FDICT-ND◆	1.03	.93	.74	TB3500H-FDITR-ND◆	381.66/M	TB3500H-13-F	

◆ RoHS Compliant

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.

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