



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

SDB151 THRU SDB157

Features

- Halogen free available upon request by adding suffix "-HF"
- Surface Mount Package
- Low Profile Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

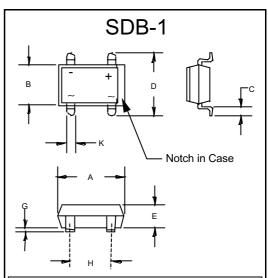
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SDB151	SDB151	50V	35V	50V
SDB152	SDB152	100V	70V	100V
SDB153	SDB153	200V	140V	200V
SDB154	SDB154	400V	280V	400V
SDB155	SDB155	600V	420V	600V
SDB156	SDB156	800V	560V	800V
SDB157	SDB157	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	I _{F(AV)}	1.5 A	T _A = 40°C
Current			
Peak Forward Surge	I _{FSM}	50A	8.3ms, half sine
Current			
Maximum			
Instantaneous	V_{F}	1.1V	$I_{FM} = 1.5A;$
Forward Voltage			$T_A = 25^{\circ}C$
Maximum DC			
Reverse Current At	I_R	10μΑ	T _A = 25°C
Rated DC Blocking		1.0mA	T _A = 100°C
Voltage			
Typical Junction	С	25pF	Measured at
Capacitance			1.0MHz, V _R =4.0V

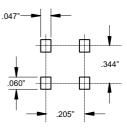
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

1.5 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.316	.335	8.05	8.51			
В	.245	.255	6.20	6.50			
С	.040	.060	1.02	1.50			
О	.360	.410	9.40	10.4			
Е	.102	.130	2.60	3.30			
G	.003	.013	.076	.330			
Ι	.195	.205	5.00	5.20			
K	038	047	1.00	1 20			

Suggested Solder Pad Layout

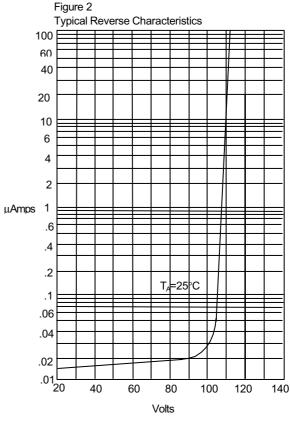


SDB151 thru SDB157

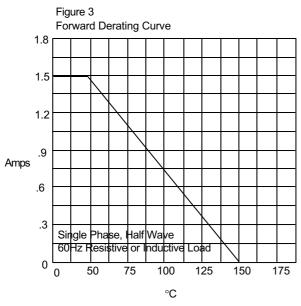


Figure 1 **Typical Forward Characteristics** 10 6 4 2 25℃ Amps .6 .4 .2 .1 .06 .04 .02 .01 .6 8. 1.0 1.2 Volts

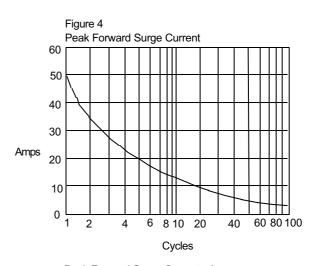
Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts



Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts



Average Forward Rectified Current - Amperes versus Ambient Temperature - $^{\circ}\text{C}$



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel1.5Kpcs/Reel
(Part Number)-BP	Bulk; 5K/Box

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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