



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

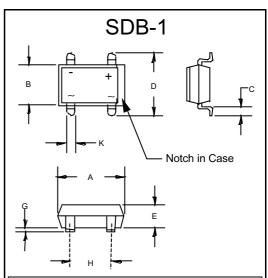
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SDB151	SDB151	50V	35V	50V
SDB152	SDB152	100V	70V	100V
SDB153	SDB153	200V	140V	200V
SDB154	SDB154	400V	280V	400V
SDB155	SDB155	600V	420V	600V
SDB156	SDB156	800V	560V	800V
SDB157	SDB157	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°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	CJ	25pF	Measured at
Capacitance			1.0MHz, V _R =4.0V

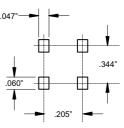
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

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			
D	.360	.410	9.40	10.4			
Е	.102	.130	2.60	3.30			
G	.003	.013	.076	.330			
Н	.195	.205	5.00	5.20			
K	038	047	1.00	1 20			

Suggested Solder Pad Layout

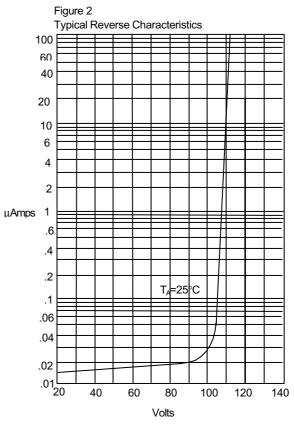


SDB151 thru SDB157

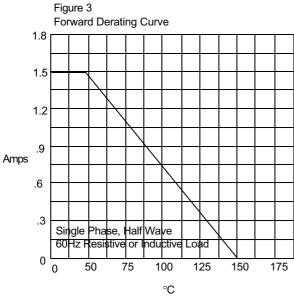


Figure 1 **Typical Forward Characteristics** 10 6 4 2 25℃ Amps .6 .4 .2 .1 .06 .04 .02 .01 .6 8. 1.0 1.2 Volts

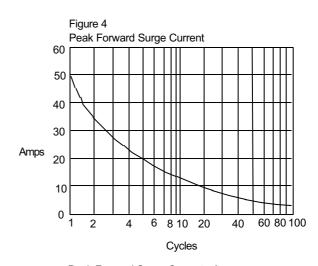
Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



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



Average Forward Rectified Current - Amperes versus Ambient Temperature - °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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.