

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

SDB101 THRU **SDB107**

Features

- Surface Mount and Low Profile Package
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- UL Recognized File # E165989 Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

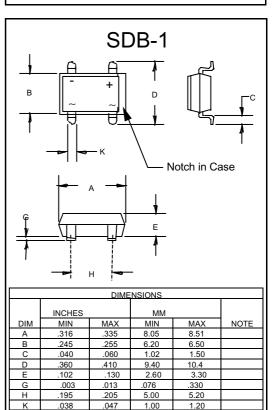
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SDB101	SDB101	50V	35V	50V
SDB102	SDB102	100V	70V	100V
SDB103	SDB103	200V	140V	200V
SDB104	SDB104	400V	280V	400V
SDB105	SDB105	600V	420V	600V
SDB106	SDB106	800V	560V	800V
SDB107	SDB107	1000V	700	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

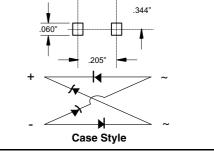
Average Forward	I _{F(AV)}	1.0 A	T _A = 40°C
Current			
Peak Forward Surge	I _{FSM}	50A	8.3ms, half sine
Current			
Maximum			
Instantaneous	VF	1.1V	I _{FM} = 1.0A;
Forward Voltage			T _A = 25°C
Maximum DC			
Reverse Current At	I _R	10µA	T _A = 25°C
Rated DC Blocking		0.5mA	T _A = 125°C
Voltage			
Typical 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

1.0 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



Suggested Solder Pad Layout .047" 344'



www.mccsemi.com

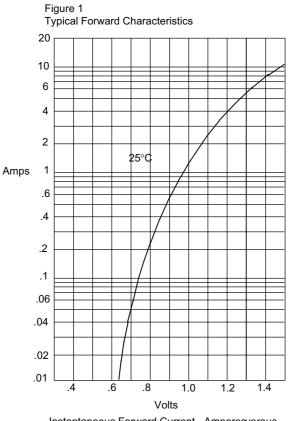
Revision: 11

2008/01/30

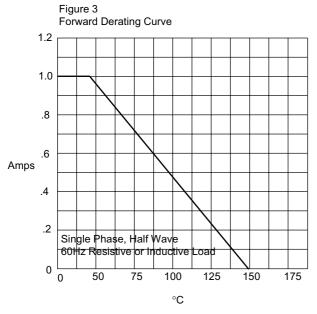
SDB101 thru SDB107



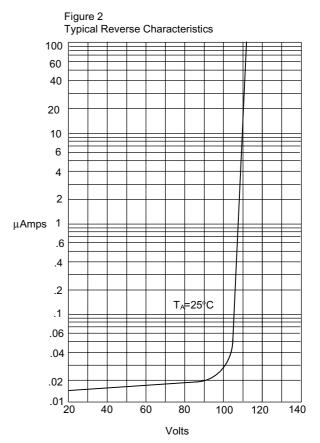
Micro Commercial Components



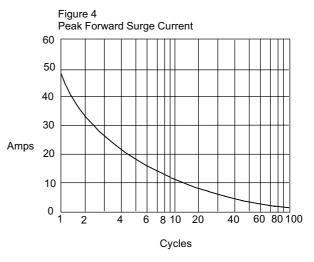
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Ambient Temperature $\ -^\circ C$



Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

www.mccsemi.com

Revision: 11



Ordering Information

Device	Packing		
(Part Number)-TP	Tape&Reel1.5Kpcs/Reel		
(Part Number)-BP	Bulk;50pcs/Tube		

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.

APPLICATIONS DISCLAIMER

Products offer by Micro Commercial Components Corp. are not intended for use in Medical,

Aerospace or Military Applications.

