

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SDB101 THRU SDB107

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Surface Mount and Low Profile Package
- UL Recognized File # E165989

Maximum Ratings

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

MCC		Maximum	Maximum	Maximum
Part	Device	Recurrent	RMS	DC
Number	Marking	Peak Reverse	Voltage	Blocking
		Voltage		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	700V	1000V

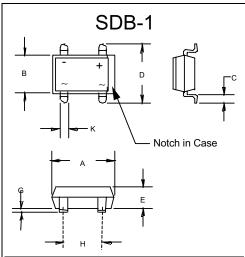
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0 A	T _A = 40°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.1V	I _{FM} = 1.0A; T _A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 0.5mA	T _A = 25°C T _A = 125°C
Typical Junction Capacitance	Сл	25pF	Measured at 1.0MHz, V _R =4.0V
Typical thermal Resistance Per Leg (Note 2)	Reja Rejl	40°C/W 15°C/W	

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

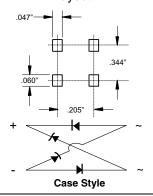
2. Units mounted on P.C.B with 0.51x0.51"(13x13mm) copper pads

1.0 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		
H	.195	.205	5.00	5.20		
K	.038	.047	1.00	1.20		

Suggested Solder Pad Layout

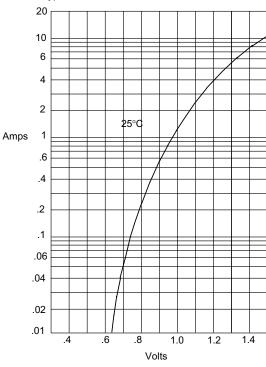


SDB101 thru SDB107



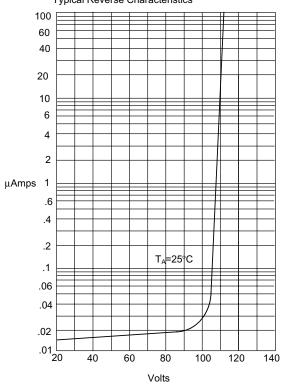
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Figure 1 Typical Forward Characteristics

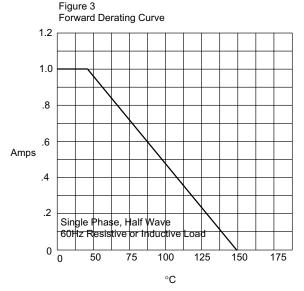


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

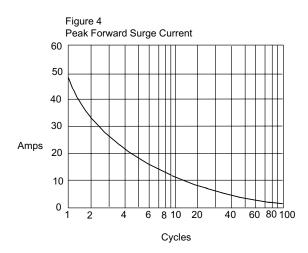
Figure 2 Typical Reverse Characteristics



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



Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



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



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel1.5Kpcs/Reel
(Part Number)-BP	Bulk;20Kpcs/Ctn

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