

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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

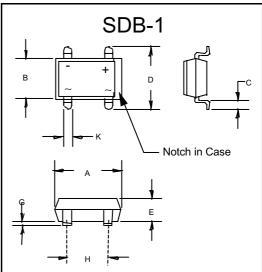
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SDB101	SDB101	50V	35V	50V
SDB102	SDB102	100V	70V	100V
SDB103	SDB103	200V	140V	200V
SDB104	SDB104	400V	280V	400V
SDB105	SDB105	600V	420V	600V
SDB106	SDB106	800V	560V	V008
SDB107	SDB107	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	V_{F}	1.1V	$I_{FM} = 1.0A;$			
Forward Voltage			T _A = 25°C			
Maximum DC						
Reverse Current At	I_R	10μΑ	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			

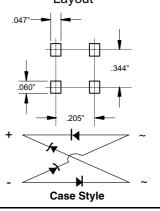
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

1.0 Amp Single Phase **Bridge Rectifier** 50 to 1000 Volts



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.316	.335	8.05	8.51			
В	.245	.255	6.20	6.50			
O	.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			
Ι	.195	.205	5.00	5.20			
K	.038	.047	1.00	1.20	, i		

Suggested Solder Pad Layout

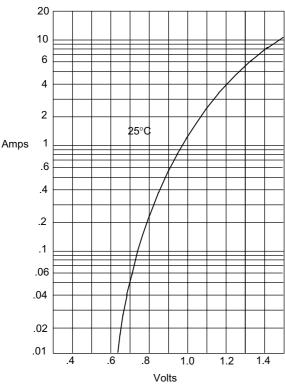


SDB101 thru SDB107



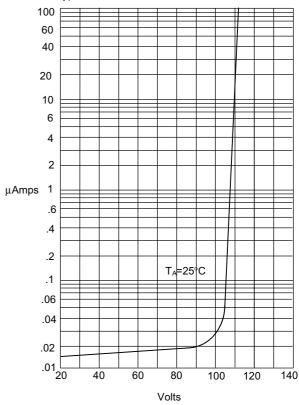
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Figure 1
Typical Forward Characteristics

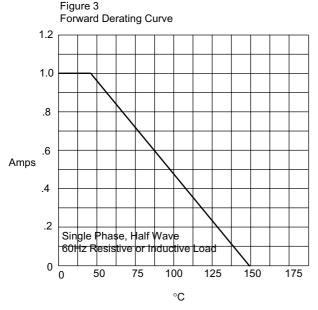


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

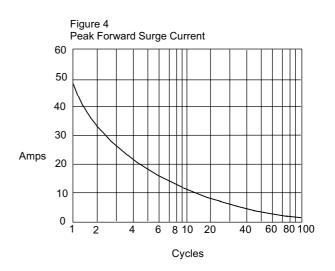
Figure 2
Typical Reverse Characteristics



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



Average Forward Rectified Current - Amperes/ersus Ambient Temperature - $^{\circ}$ 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;50pcs/Tube

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