

FL E540886

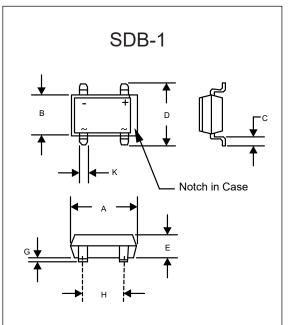
Features

- Halogen Free. "Green" Device (Note 1)
- · Glass Passivated Chip Junction
- Moisture Sensitivity Level 1
- Ideal for Automated Placement
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

3 Amp Bridge Rectifiers 1000 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

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Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V_{RWM}	1000	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{RMS}	700	V
Average Rectified Forward Current T _C =120°C	I _{F(AV)}	3	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave		80	
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	160	Α
l²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	26.6	A ² s



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.316	0.335	8.05	8.51		
В	0.245	0.255	6.20	6.50		
С	0.040	0.060	1.02	1.50		
D	0.360	0.410	9.40	10.40		
Е	0.102	0.130	2.60	3.30		
G	0.003	0.013	0.076	0.33		
Н	0.195	0.205	5.00	5.20		
K	0.038	0.047	1.00	1.20		

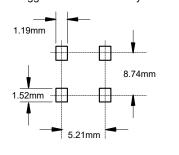
Marking Code and Internal Structure



Note:

- 1.Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High temperature solder exemption applied, see EU directive annex 7a.

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T_J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		5		°C/W
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		14		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		38		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1.5A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			5 100	μA
Junction Capacitance	Сл	V _R =4V;f=1MHz;T _J =25°C		23		pF

^{1.}Device mounted on P.C.B with 35mm*25mm*1.7mm.



Curve Characteristics

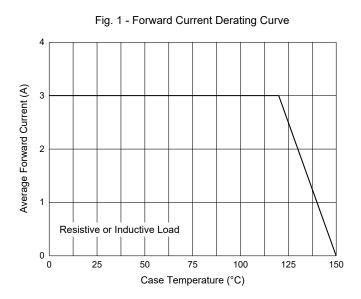


Fig. 3 - Typical Forward Characteristics

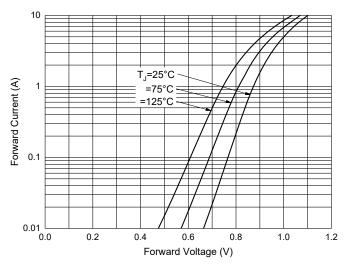


Fig. 5 - Typical Capacitance Characteristics

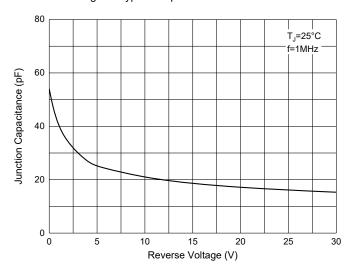
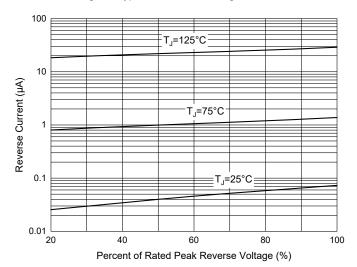


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
SDB307-TP	Tape&Reel:1.5Kpcs/Reel		
SDB307-BP	Bulk:50pcs/Tube,5K/Box,20K/Carton		

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