



Micro Commercial Components



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SDB151L THRU SDB157L

Features

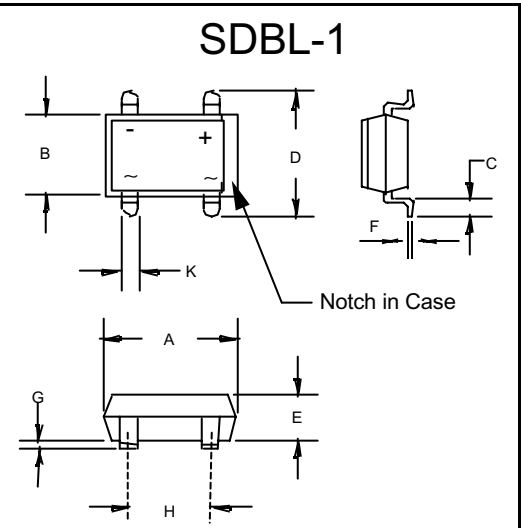
- Halogen free available upon request by adding suffix "-HF"
- Surface Mount Package
- Low Profile Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

1.5 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

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
SDB151L	SDB151	50V	35V	50V
SDB152L	SDB152	100V	70V	100V
SDB153L	SDB153	200V	140V	200V
SDB154L	SDB154	400V	280V	400V
SDB155L	SDB155	600V	420V	600V
SDB156L	SDB156	800V	560V	800V
SDB157L	SDB157	1000V	700V	1000V

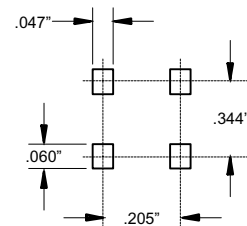


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.320	.335	8.12	8.51	
B	.244	.256	6.20	6.50	
C	.040	.060	1.02	1.53	
D	.366	.413	9.30	10.5	
E	.087	.095	2.20	2.40	
F	.006	.013	0.15	0.33	
G	.003	.013	0.076	0.33	
H	.195	.205	5.00	5.20	
K	.037	.047	0.95	1.20	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.5 A	$T_A = 40^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	$I_{FM} = 1.5A;$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10μA 1.0mA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Typical Junction Capacitance	C_J	25pF	Measured at 1.0MHz, $V_R=4.0V$

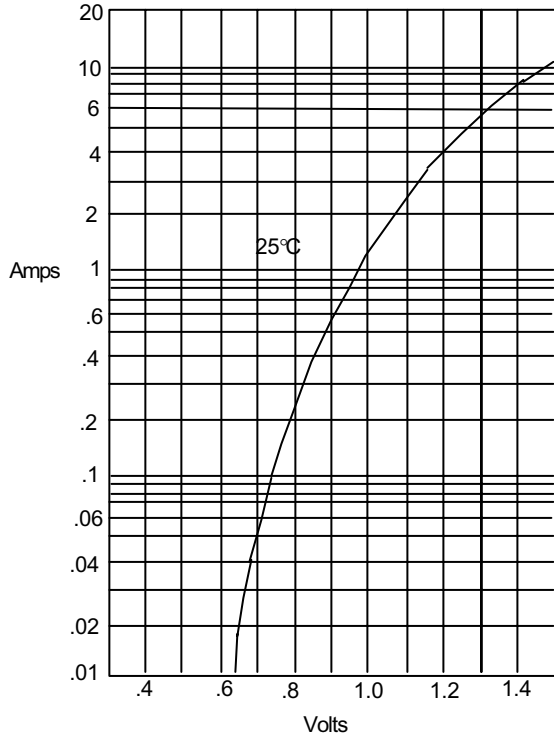
Suggested Solder Pad Layout



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

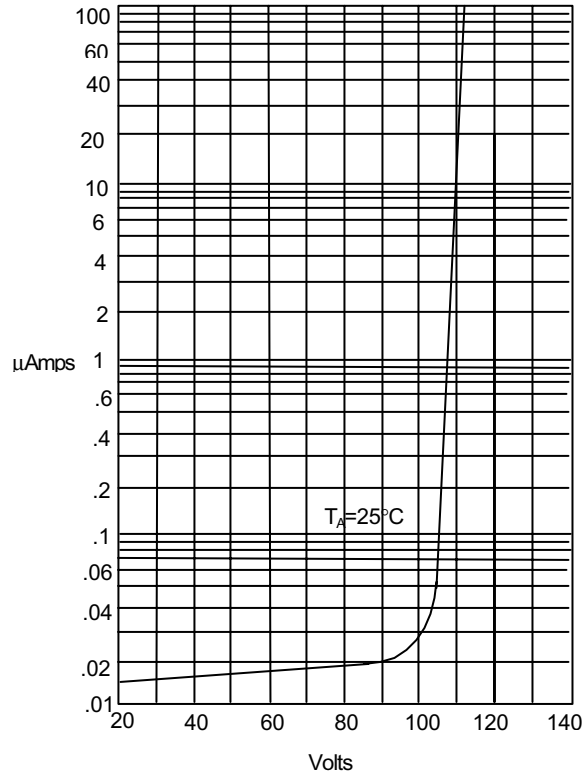
SDB151Lthru SDB157L

Figure 1
Typical Forward Characteristics



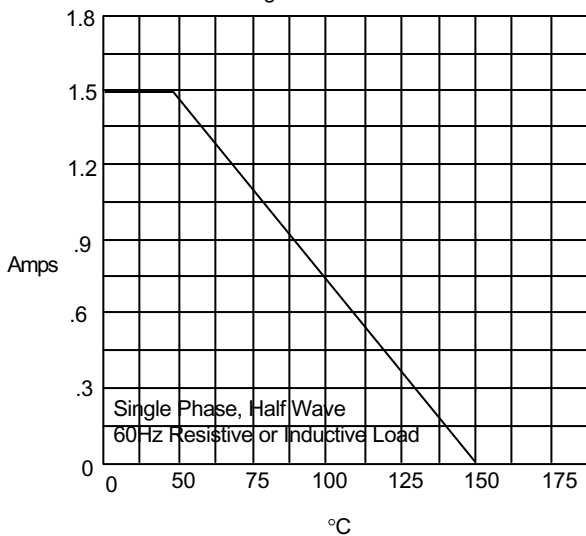
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



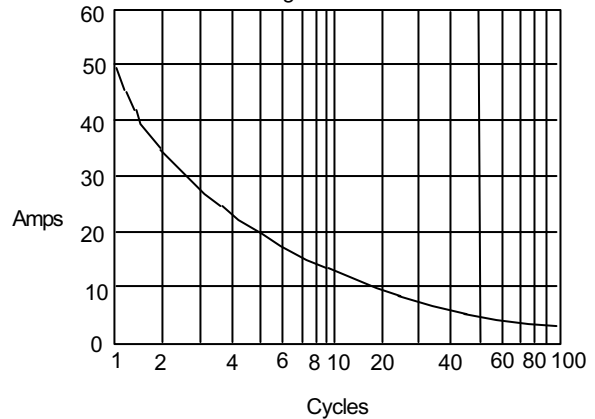
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;1.5Kpcs/Reel
(Part Number)-BP	Bulk; 5K/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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