

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Guardring For Overvoltage Protection
- High Forward Surge Capability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C(SB220L-SB240L)
- Operating Junction Temperature Range: -55°C to +150°C(SB250L-SB2010L)
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 45°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SB220L	SB220L	20V	14V	20V
SB230L	SB230L	30V	21V	30V
SB240L	SB240L	40V	28V	40V
SB250L	SB250L	50V	35V	50V
SB260L	SB260L	60V	42V	60V
SB280L	SB280L	80V	56V	80V
SB2010L	SB2010L	100V	70V	100V

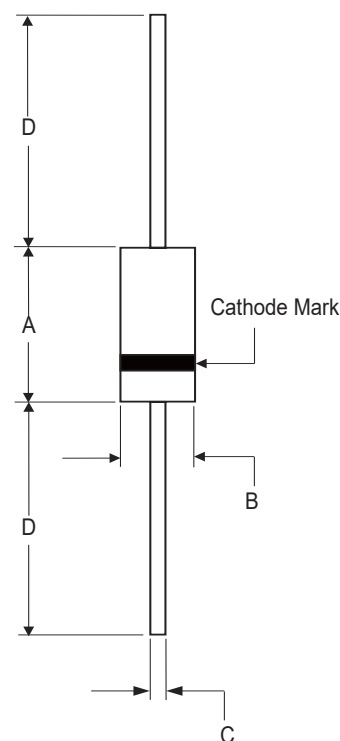
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Output Current	I_o	2.0A	See Fig. 1
Maximum Surge Current	I_{FSM}	35A	8.3ms, Half Sine
Max Peak Forward Voltage	V_{FM}	0.45V	$I_{FM}=2.0A;$
SB220L-SB240L		0.48V	
SB250L-SB260L		0.75V	
Max Peak Reverse Current	I_{RM}	0.1mA 10mA	$T_J=25^{\circ}C;$ $T_J=100^{\circ}C$
Typical Junction Capacitance	C_J	180pF	$V_R=4.0V$ $f=1.0MHz$

Note : 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.

2.0 Amp Schottky Rectifier 20 to 100 Volts

DO-15



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.230	0.300	5.80	7.60	
B	0.104	0.140	2.60	3.60	
C	0.026	0.035	0.70	0.90	
D	1.000	-----	25.40	-----	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

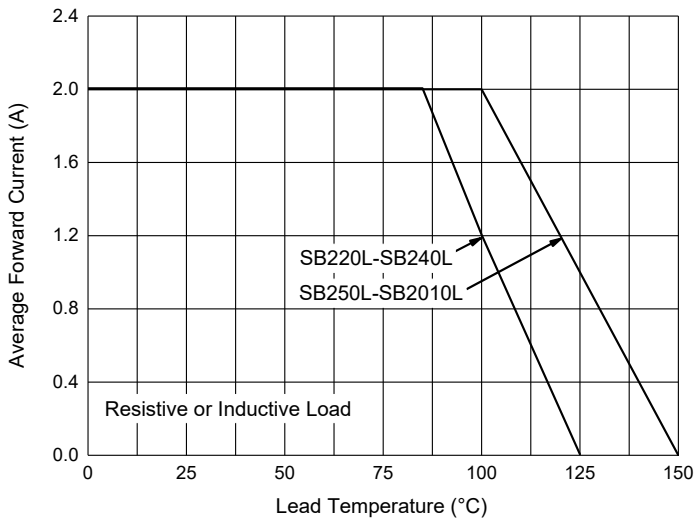


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

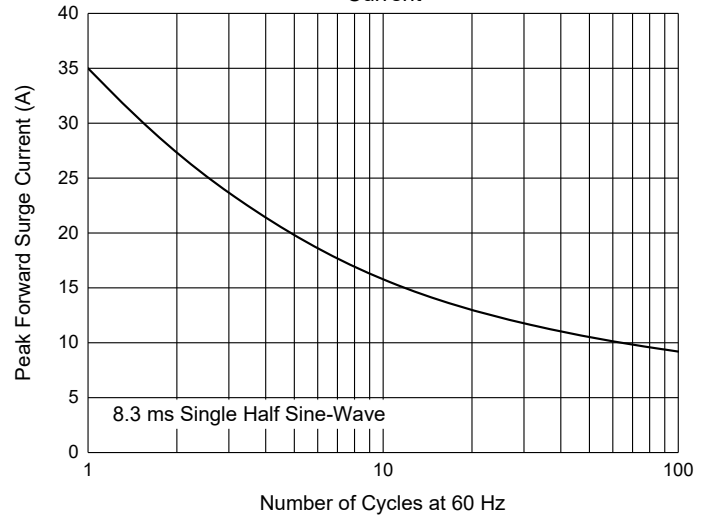


Fig. 3 - Typical Instantaneous Forward Characteristics

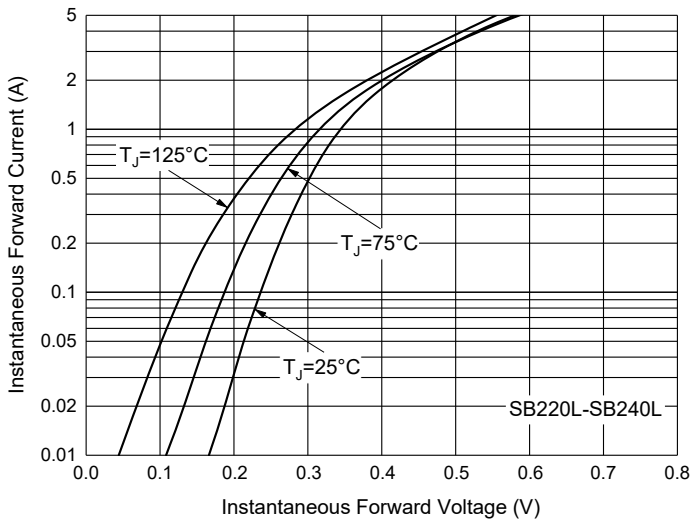


Fig. 4 - Typical Instantaneous Forward Characteristics

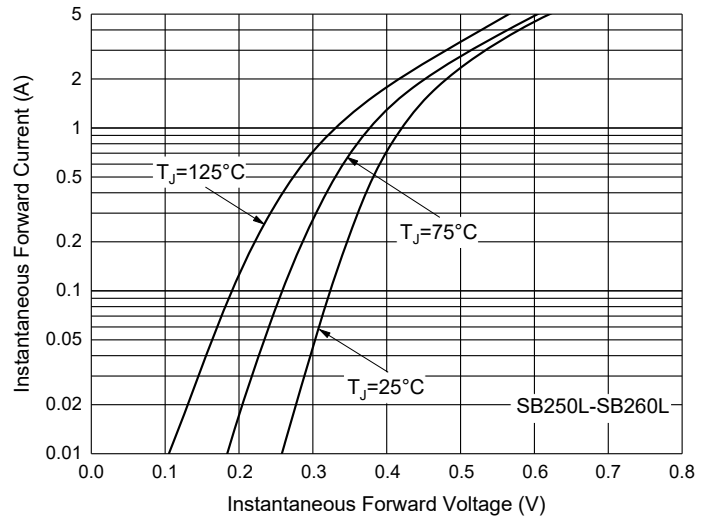


Fig. 5 - Typical Instantaneous Forward Characteristics

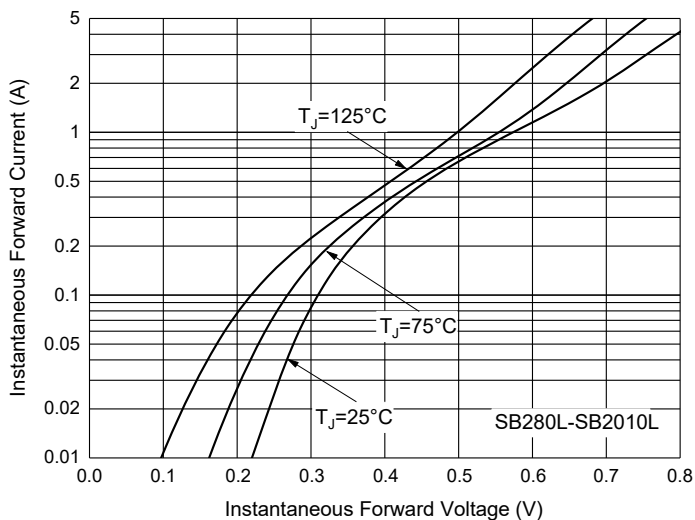
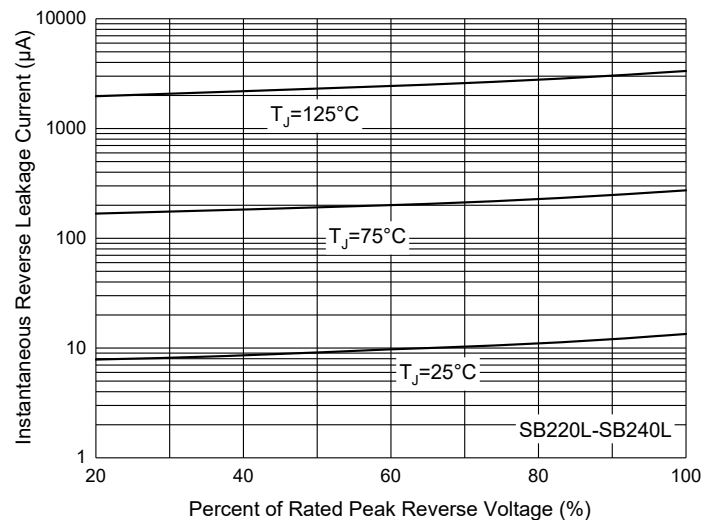


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

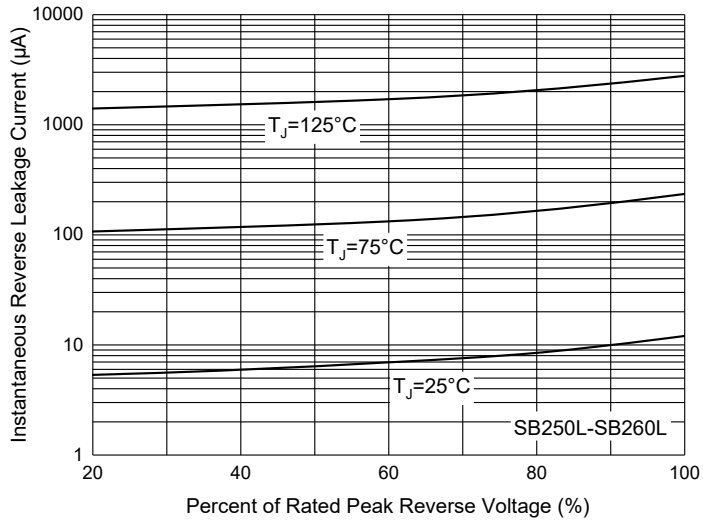
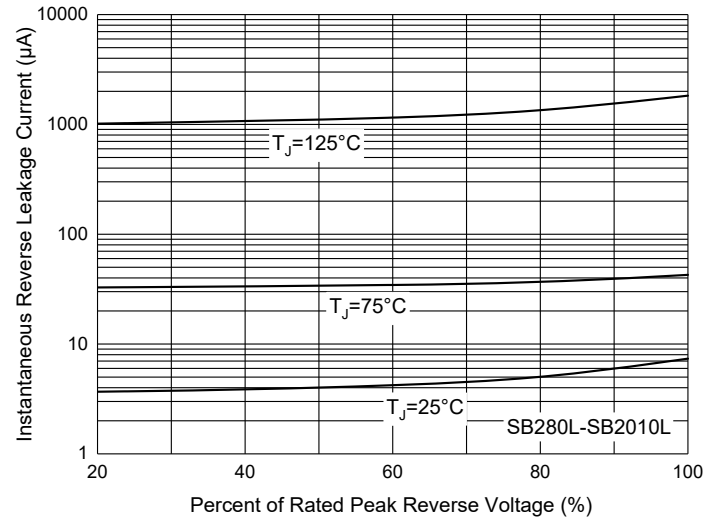


Fig. 8 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel: 4Kpcs/Reel
(Part Number)-AP	Ammo Packing: 3Kpcs/Ammo Box
(Part Number)-BP	Bulk:500pcs/Box,25Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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