

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- · Schottky Barrier Rectifier
- · Guard Ring Protection
- Low Forward Voltage
- · High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"

2.0 Amp Schottky Barrier Rectifier 80 to 100 Volts

Maximum Ratings

- Operating Junction Temperature Range: -50°C to +150°C
- Storage Temperature Range: -50°C to +150°C
- Maximum Thermal Resistance: 35°C/W Junction to Ambient

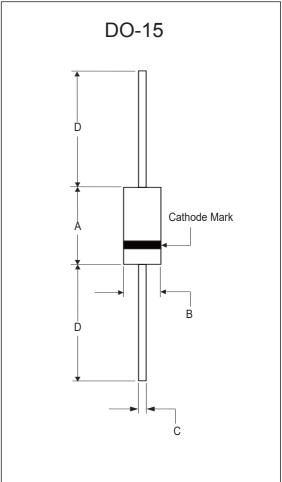
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SB280	SB280	80V	56V	80V
SB2010	SB2010	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	2.0A	T _L =75°C
Maximum Surge Current	I _{FSM}	50A	8.3ms,Half Sine
Max Peak Forward Voltage	V _{FM}	0.85V	I _{FM} =2.0A; T _J =25°C*
Max Peak Reverse Current	I _{RM}	0.01mA	V _{RRM} , T _J =25°C
Maximum Junction Capacitance	CJ	90pF	V _R =4.0V f=1.0MHz

^{*}Pulse test: Pulse width 300 μsec , Duty cycle 2%

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



DIMENSIONS							
DIM	INCHES		MM		NOTE		
Dilvi	MIN	MAX	MIN	MAX	NOTE		
Α	0.230	0.300	5.80	7.60			
В	0.104	0.140	2.60	3.60			
С	0.026	0.035	0.70	0.90			
D	1.000		25.40				



Curve Characteristics

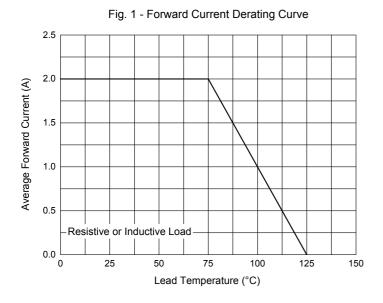


Fig. 3 - Typical Instantaneous Forward Characteristics

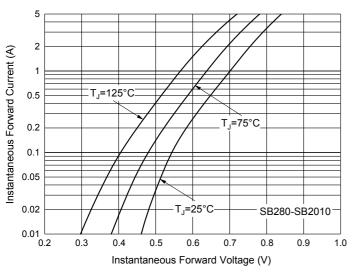


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

50

40

40

20

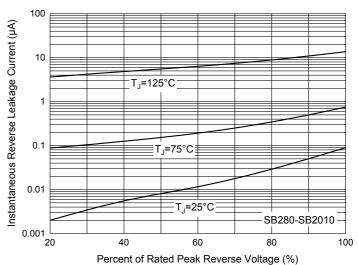
8.3 ms Single Half Sine-Wave

0

1 10 100

Number of Cycles at 60 Hz

Fig. 4 - 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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