



Micro Commercial Components



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SB280 THRU SB2010

Features

- Lead Free Finish/Rohs Compliant (Note1) ("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
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -50°C to +125°C
- Storage Temperature: -50°C to +125°C
- Maximum Thermal Resistance: 35°C/W Junction To Ambient

MCC catalog 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

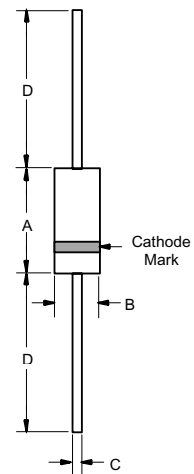
Average forward current	$I_{F(AV)}$	2A	Square wave
Maximum surge current	I_{FSM}	50A	8.3ms, half sine,
Max peak forward voltage	V_{FM}	.85V	$I_{FM} = 2.0A$; $T_J = 25^\circ C^*$
Max peak reverse current	I_{RM}	0.5mA	V_{RRM} , $T_J = 25^\circ C$
Typical junction capacitance	C_J	170pF	$V_R = 4.0V$ $f = 1.0MHz$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

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

2 Amp Schottky Barrier Rectifier 80 to 100 Volts

DO-15



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.230	.300	5.80	7.60	
B	.104	.140	2.60	3.60	
C	.026	.034	.70	.90	
D	1.000	—	25.40	—	

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SB280 thru SB2010

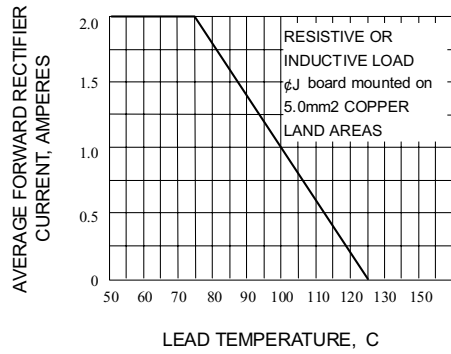


Fig. 1-FORWARD CURRENT DERATING CURVE

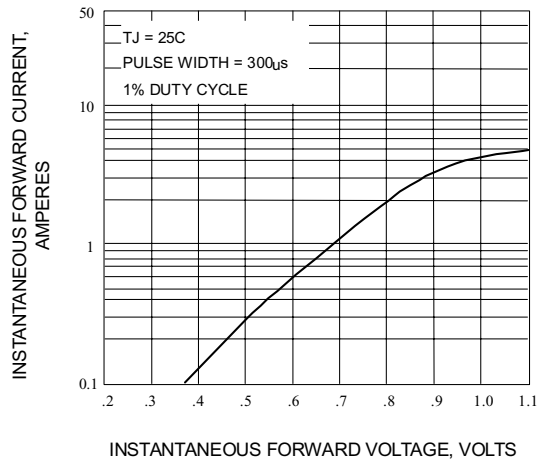


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

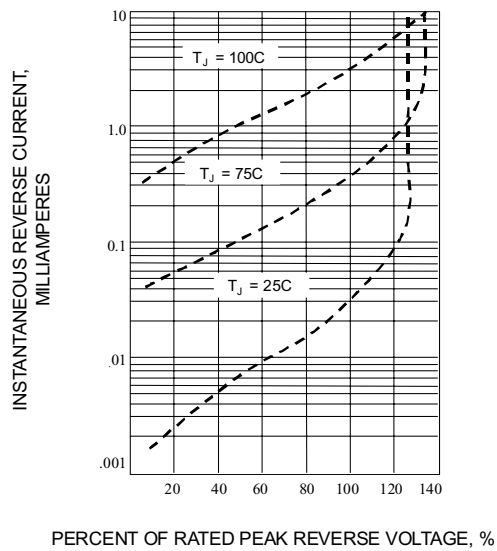


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

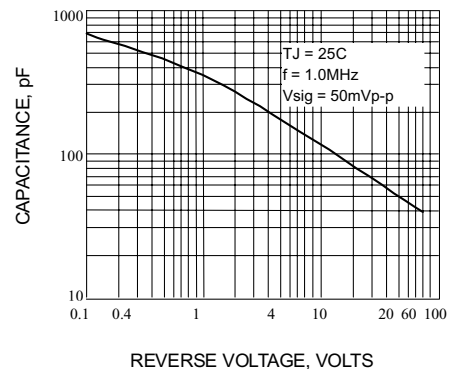


Fig. 4-TYPICAL JUNCTION CAPACITANCE

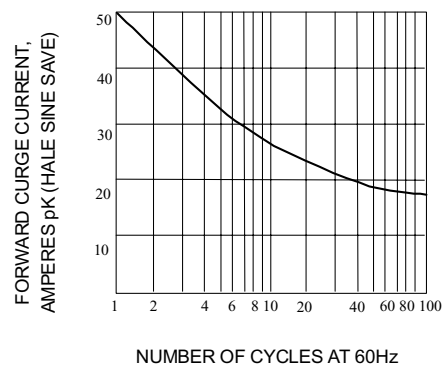


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

Ordering Information :

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

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

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