



Micro Commercial Components



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SB220 Thru SB260

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Schottky Barrier Rectifier
- Guard Ring Protection
- High Surge Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance: 15K/W Junction To Lead
50K/W Junction to Ambient*

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SB220	20V	14V	20V
SB230	30V	21V	30V
SB240	40V	28V	40V
SB245	45V	31.5V	45V
SB250	50V	35V	50V
SB260	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

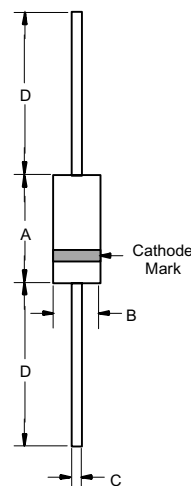
Average Rectified Output current*	I_O	2A	$T_L = 100^\circ\text{C}$
Maximum surge current	I_{FSM}	50A	8.3ms, half sine
Max peak forward voltage SB220-SB245 SB250-SB260	V_{FM}	.50V .70V	$I_{FM} = 2.0A$
Max peak reverse current	I_{RM}	0.5mA 10mA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Typical junction capacitance SB220-SB245 SB250-SB260	C_J	170pF 140pF	$V_R = 4.0V$, $f=1.0\text{MHz}$

*Valid provided that leads are kept at ambient temperature at a distance of 915mm from the case

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

2 Amp Schottky Rectifier 20V-60V

DO-15



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	---	

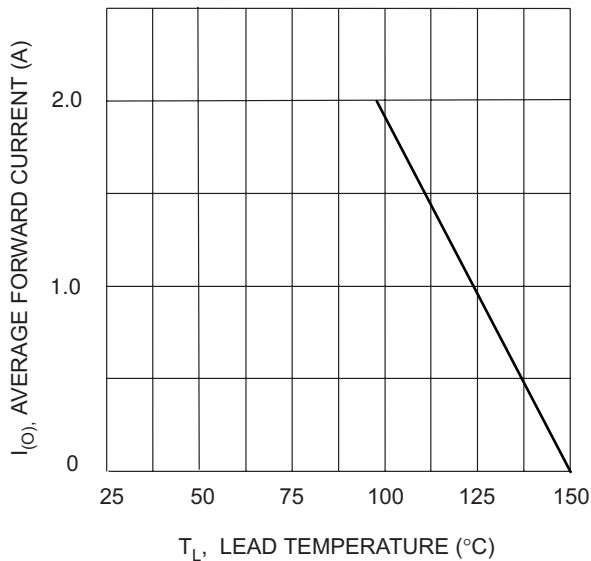


Fig. 1 Forward Current Derating Curve

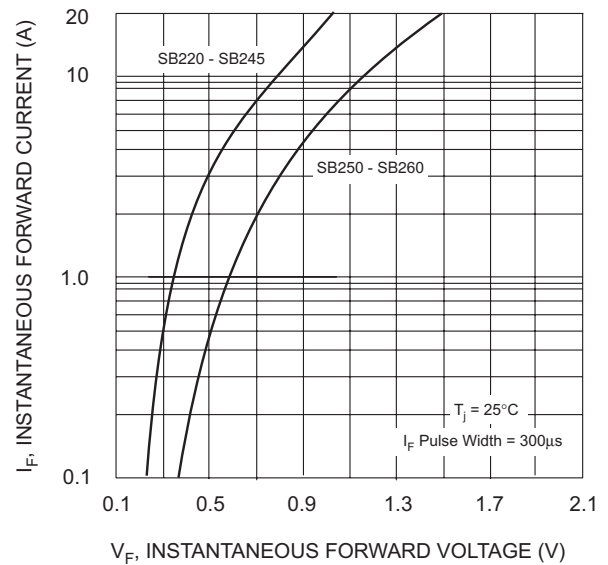


Fig. 2 Typical Forward Characteristics

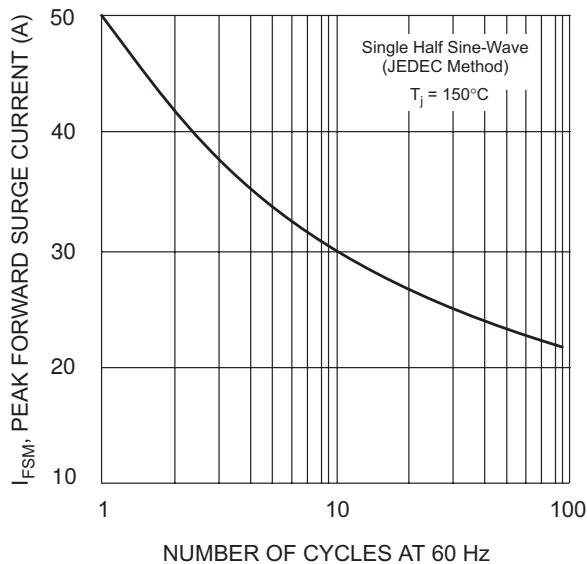


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

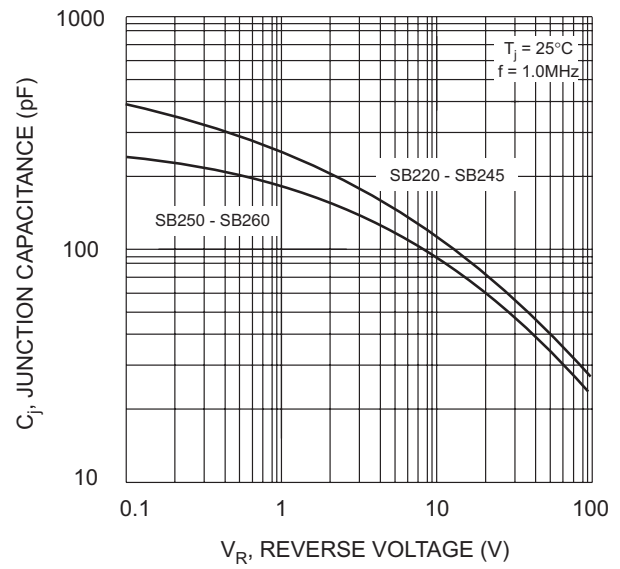


Fig. 4 Typical Junction Capacitance

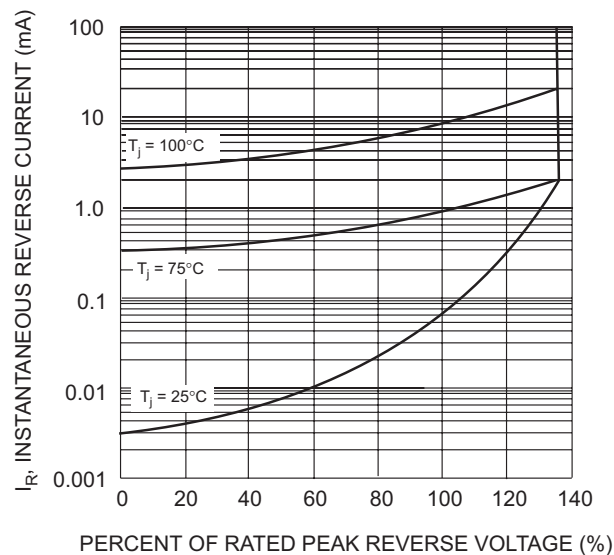


Fig. 5 Typical Reverse Characteristics

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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