



<b>SCHOTTKY BARRIER RECTIFIERS</b>	<b>REVERSE VOLTAGE - 20 to 200 Volts</b> <b>FORWARD CURRENT - 5.0 Ampere</b>
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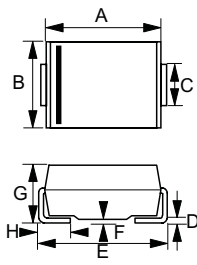
**FEATURES**

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

**MECHANICAL DATA**

- Case : SMB , molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.095 grams
- Mounting position : Any

**SMB**



SMB		
DIM.	MIN.	MAX.
A	4.06	4.70
B	3.30	3.94
C	1.91	2.11
D	0.15	0.31
E	5.08	5.59
F	0.05	0.20
G	2.13	2.44
H	0.76	1.52

All Dimensions in millimeter

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**  
 Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%

PARAMETER	SYMBOL	B520B	B530B	B540B	B550B	B560B	B580B	B5100B	B5150B	B5200B	UNIT	
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current	IF	5.0									A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	100									A	
Maximum instantaneous I <sub>F</sub> =5A@25°C	V <sub>F</sub>	0.50			0.70		0.85	0.87	0.9		V	
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	I <sub>R</sub>	0.5 10.0					0.2 5.0				mA	
Typical Junction Capacitance	C <sub>J</sub>	300			210		170	150	110		pF	
Typical Thermal Resistance	R <sub>θJA</sub> R <sub>θJC</sub>	60 25										°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125					-55 to +125				°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150					-55 to +150				°C	



FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

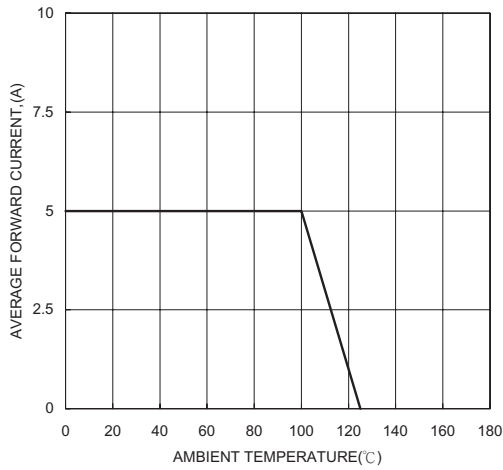


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

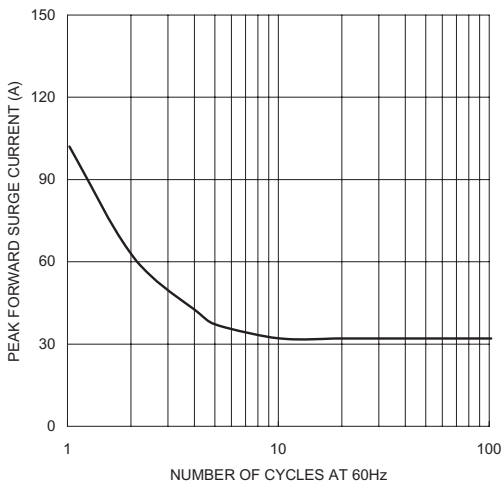


FIG. 5-TYPICAL JUNCTION CAPACITANCE

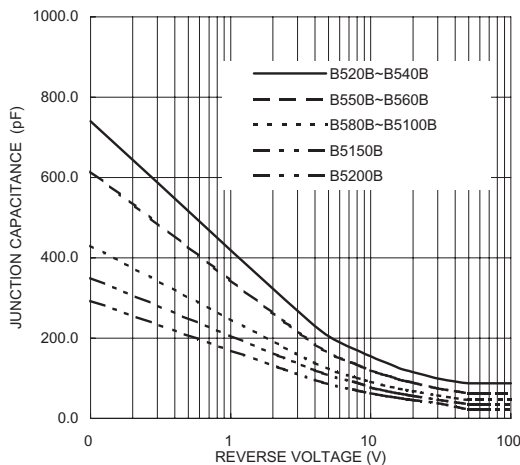


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

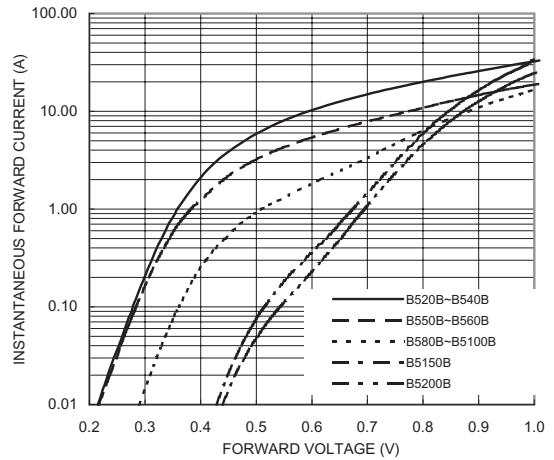


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

