

## SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 200 Volts  
FORWARD CURRENT - 3.0 Ampere

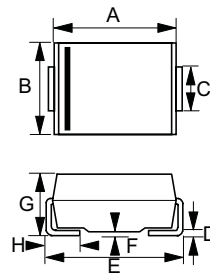
### FEATURES

- 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	B320B	B330B	B340B	B350B	B360B	B380B	B3100B	B3150B	B3200B	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	3.0									A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	80									A	
Maximum instantaneous $I_F=3A@25^\circ C$	VF	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	IR	0.5					0.2					mA
		10.0					5.0					
Typical Junction Capacitance	CJ	180			150		110	100	80		pF	
Typical Thermal Resistance	RθJA RθJC	70						30				°C/W
Operating Temperature Range	TJ	-55 to +125					-55 to +125					°C
Storage Temperature Range	TSTG	-55 to +150					-55 to +150					°C

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

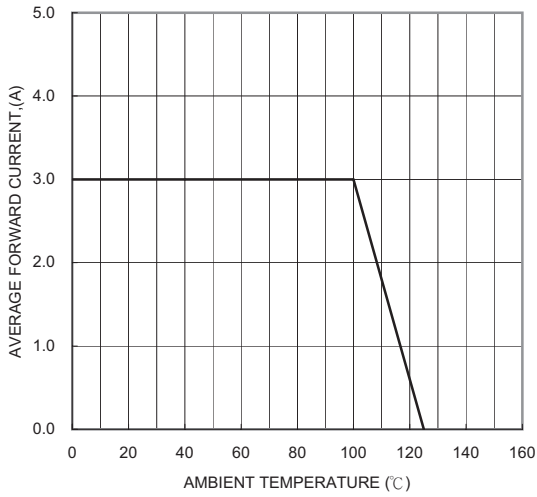


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

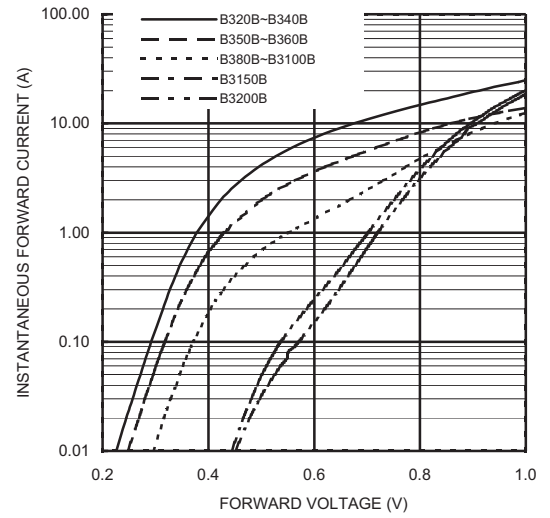


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

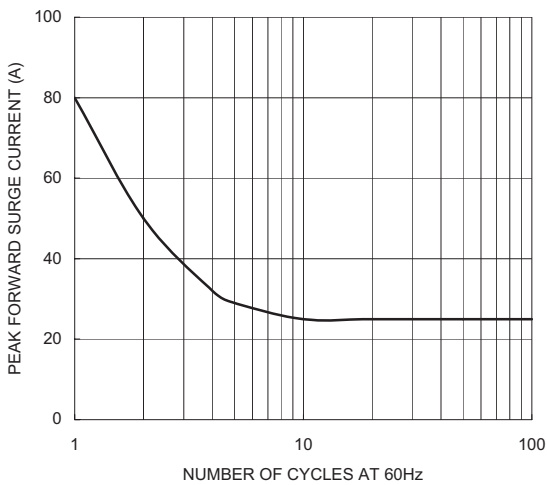


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

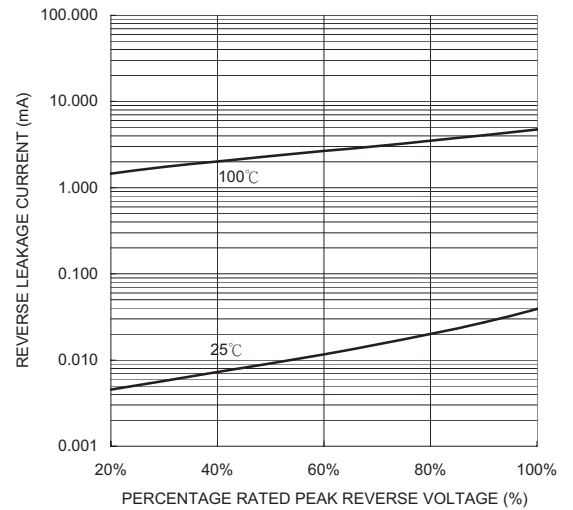


FIG. 5-TYPICAL JUNCTION CAPACITANCE

