

## SCHOTTKY BARRIER RECTIFIERS

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

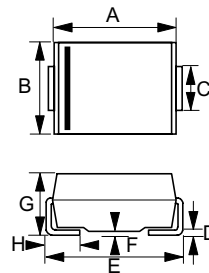
### FEATURES

- 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 : JEDEC SMA molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.062 grams
- Mounting position : Any

### SMA



SMA		
DIM.	MIN.	MAX.
A	3.99	4.50
B	2.54	2.79
C	1.32	1.47
D	0.15	0.31
E	4.93	5.28
F	0.05	0.127
G	1.98	2.29
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	B320A	B330A	B340A	B350A	B360A	B380A	B3100A	B3150A	B3200A	UNIT	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current	$I_F$	3.0									A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	80.0									A	
Maximum Instantaneous Forward Voltage @ 3.0A	$V_F$	0.50			0.70		0.85		0.87	0.90	V	
Maximum DC Reverse Current @ TA=25°C	$I_R$	0.5					0.2					mA
at Rated DC Blocking Voltage @ TA=100°C		10.0					5.0					
Typical Junction Capacitance	$C_j$	180			150		110		100	80	pF	
Typical Thermal Resistance	$R_{\theta JA}$	70									°C/W	
Operating Temperature Range	$T_J$	-55 to +125									°C	
Storage Temperature Range	$T_{STG}$	-55 to +150									°C	

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

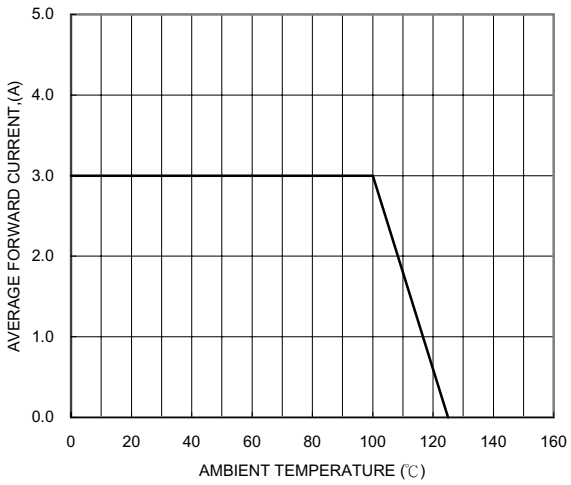


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

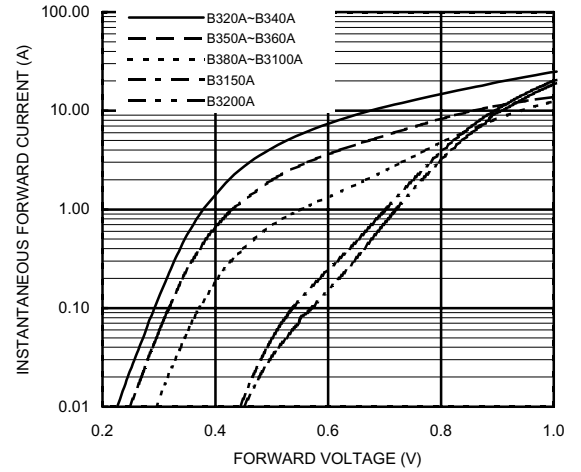


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

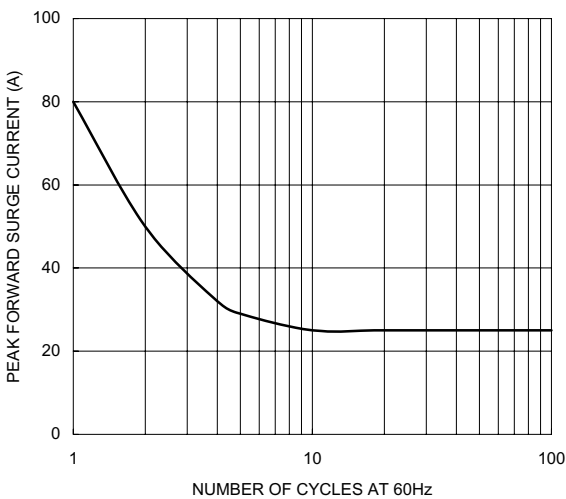


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

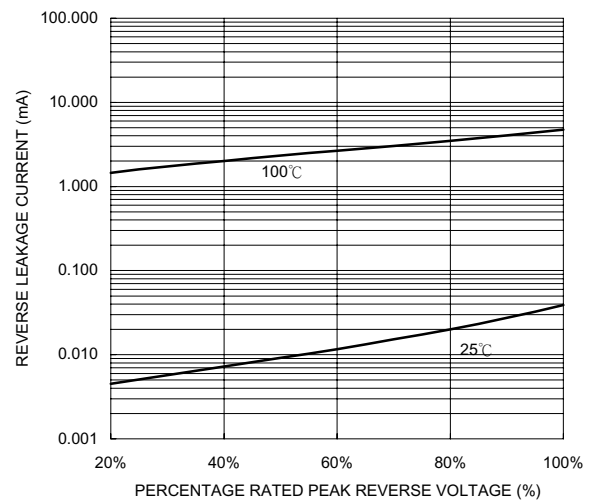


FIG. 5-TYPICAL JUNCTION CAPACITANCE

