



## **B350B** thru **B360B**

# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 50 to 60 Volts FORWARD CURRENT - 3.0 Amperes

#### **FEATURES**

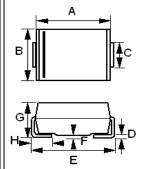
- · For surface mounted application
- Metal-Semiconductor junction with guard ring
- · Epitaxial construction
- Very Low forward voltage drop
- · High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

#### **MECHANICAL DATA**

· Case: Molded plastic

Polarity: Color band denotes cathodeWeight: 0.003 ounces, 0.093 grams

## <u>SMB</u>



SMB				
DIM.	MIN.	MAX.		
Α	4.06	4.57		
В	3.30	3.94		
С	1.96	2.21		
D	0.15	0.31		
E	5.21	5.59		
F	0.05	0.20		
G	2.01	2.50		
Н	0.76	1.52		
All Dimensions in millimeter				

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B350B	B360B	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	42	V
Maximum DC Blocking Voltage	VDC	50	60	А
Maximum Average Forward Rectified Current @TL=100°C	I <sub>AV</sub>	3.0		А
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	100		А
Maximum Forward Voltage at 3.0A DC	V <sub>F</sub>	0.7		V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	I <sub>R</sub>	0.5 15		mA
Typical Junction Capacitance (Note 1)	Cj	180		pF
Typical Thermal Resistance (Note 2, 4)	R⊕ <sub>JL</sub>	25		°C/W
Typical Thermal Resistance (Note 3, 4)	R⊕JA	95		°C/W
Operating Junction Temperature Range	Tj	-55 to +150		°C
Storage Temperature Range	T <sub>STG</sub>	-55 t	o +150	°C

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...

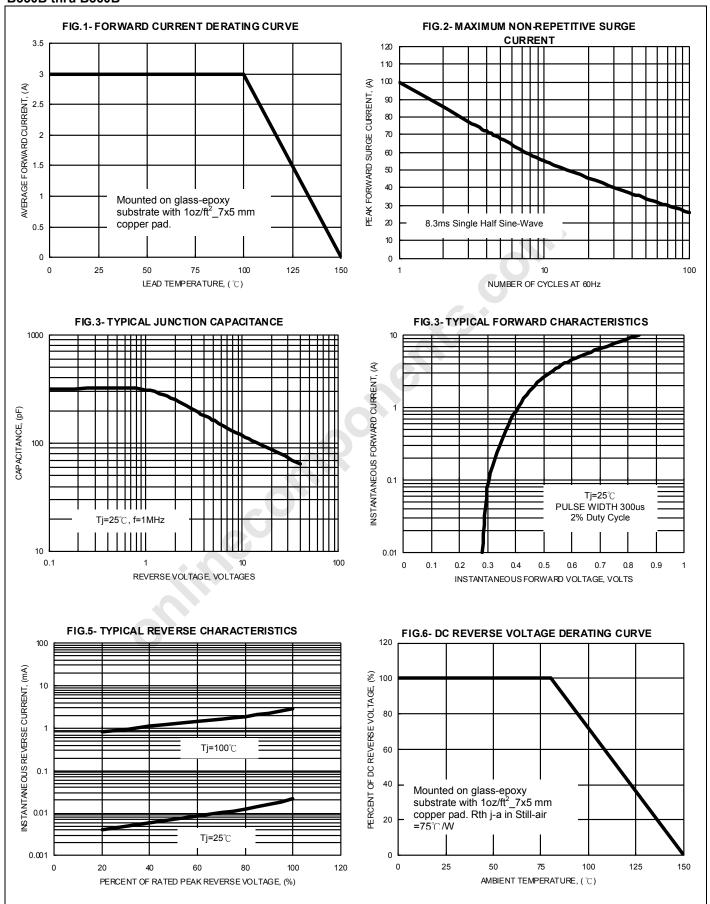
- (2) Thermal Resistance Junction to Lead
- (3) Thermal Resistance Junction to Ambient
- (4) Unit mounted on glass epoxy substrate 1oz/ft2 7x5 mm copper pad.

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# RATING AND CHARACTERISTIC CURVES B350B thru B360B









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