





### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

**REVERSE VOLTAGE** 60 Volts **FORWARD CURRENT** 3 Amperes

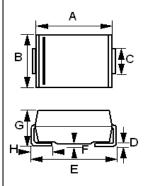
#### **FEATURES**

- · For surface mounted application
- · Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Very Low forward voltage drop
- · High current capability
- Qualified according to AEC-Q101 Rev\_C
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

#### **MECHANICAL DATA**

- · Case: Molded plastic
- · Case Material: Molding compound, UL Flammability classification 94V-0,"Halogen-free".
- · Polarity: Color band denotes cathode
- · Weight: 0.003 ounces, 0.093 grams

### **SMB**



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	B360B	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	42	V
Maximum DC Blocking Voltage	VDC	60	V
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>	0.05 15	mA
Typical Junction Capacitance (Note 4)	Cj	180	pF
Typical Thermal Resistance (Note 5, 7)	R⊕JL	25	°C/W
Typical Thermal Resistance (Note 6, 7)	R⊖ <sub>JA</sub>	95	°C/W
Operating Junction Temperature Range	Tj	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

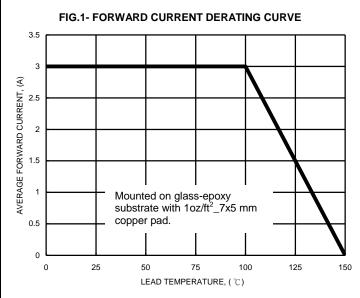
Note: (1) EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3).compliant. All applicable RoHS exemptions applied.

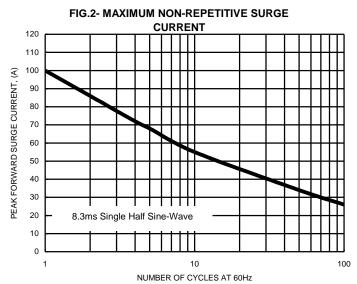
REV.-5, Oct-2021, KSHB17

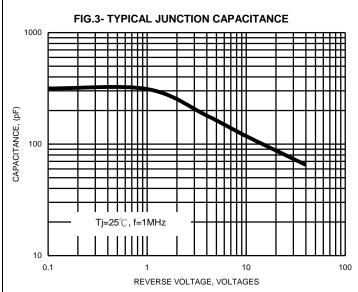
- (2). See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- (3). Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- (4) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...
- (5) Thermal Resistance Junction to Lead
- (6) Thermal Resistance Junction to Ambient
- (7) Unit mounted on glass epoxy substrate 1oz/ft2 7x5 mm copper pad.

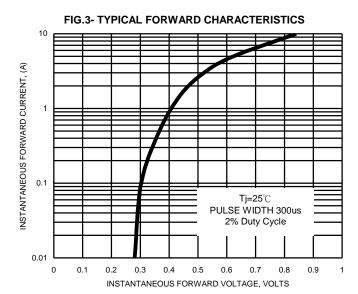


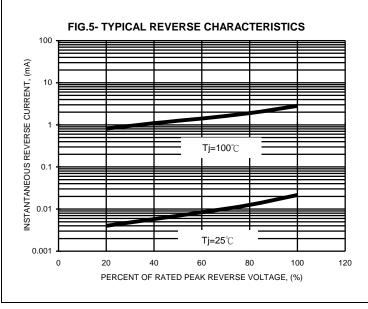
# RATING AND CHARACTERISTIC CURVES B360B(LS)

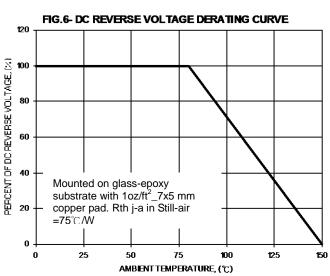










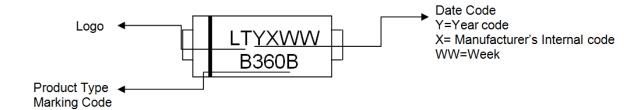




# **Ordering Information:**

Part Number	Case	Packaging
B360B	SMB	3000 / Tape & Reel

# **Marking Information:**



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