

B360(LS)

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

60 Volts **REVERSE VOLTAGE** 3.0 Amperes FORWARD CURRENT

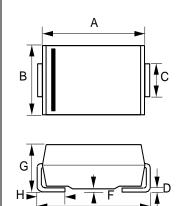
FEATURES

- · 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
- IEC 61000-4-2, level 4 (ESD), > 15KV (air)
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Package: Molded plastic
- Package Material: Molding compound, UL Flammability classification 94V-0, "Halogen-free".
- · Polarity: Color band denotes cathode
- · Weight: 0.007 ounces, 0.21 grams

SMC



SMC					
DIM.	MIN.	MAX.			
Α	6.60	7.11			
В	5.59	6.22			
С	2.92	3.18			
D	0.15	0.31			
Е	7.75	8.13			
F	0.05	0.20			
G	2.01	2.50			
Н	0.76	1.52			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

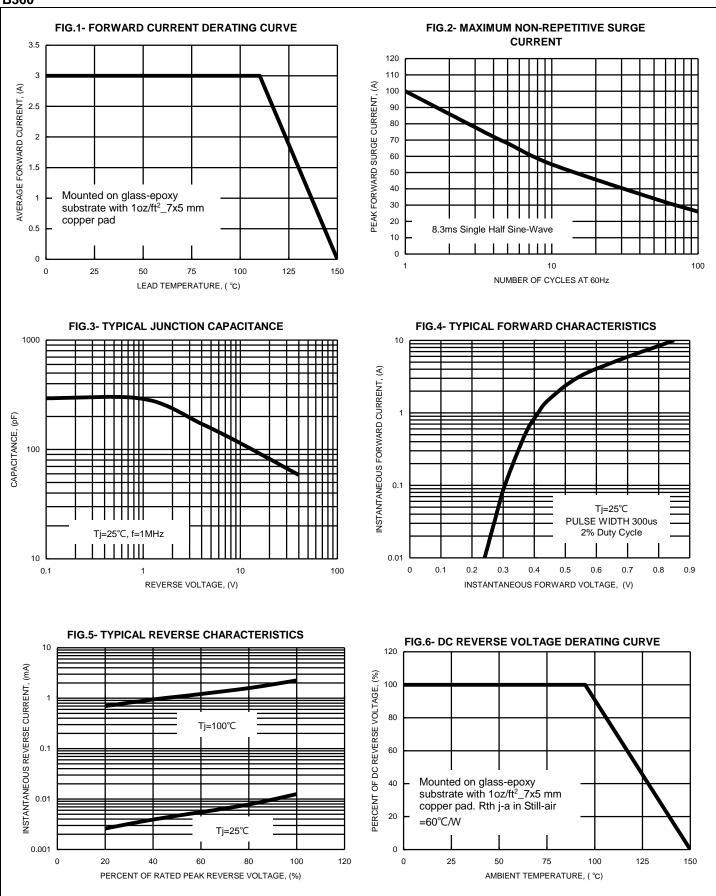
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B360	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	60	V
Maximum RMS Voltage	VRMS	42	V
Maximum DC Blocking Voltage	VDC	60	V
Maximum Average Forward Rectified Current @TL=110°C	lav	3.0	Α
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100	Α
Maximum Forward Voltage at 3.0A DC	VF	0.7	V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	IR	0.05 15	mA
Typical Junction Capacitance (Note 4)	Cj	170	pF
Typical Thermal Resistance (Note 5, 7)	R⊝ JL	20	°C/W
Typical Thermal Resistance (Note 6, 7)	R⊝ JA	60	°C/W
Operating Junction Temperature Range	Tj	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 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 B360

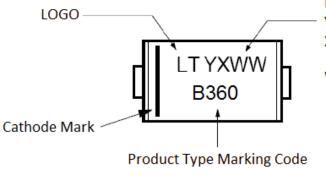




Ordering Information:

Part Number	Package	Packing	
		Qty.	Carrier
B360	SMC	3000 pcs	Tape & Reel

Marking Information:

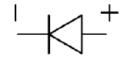


Date Code

Y = Year Code

X = A.B.V.K.C...Manufacturer's Internal Code with Green Compound

WW = Week Code





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