

B340(LS)

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 40 Volts FORWARD CURRENT - 3.0 Amperes

FEATURES

- For surface mounted applications
- · Metal-semiconductor junction with guard ring
- Epitaxial construction
- · Very low forward voltage drop
- · High current capability
- Qualification is 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

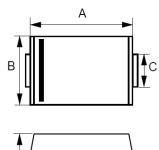
· Package: Molded plastic

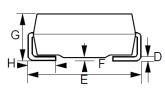
• Package Material: Molding compound, UL Flammability classification 94V-0, "Halogen-free"

· 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					

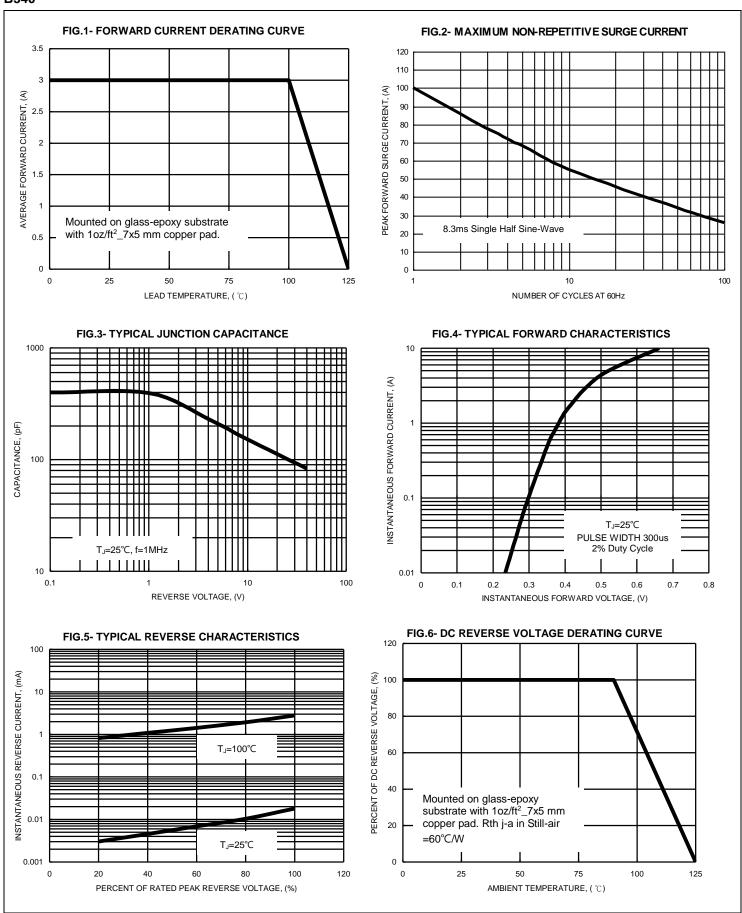
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current @T _L =100°C	I _{AV}	3.0	А
Peak Forward Surge 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	100	А
Maximum Forward Voltage at 3.0A DC	V_{F}	0.5	V
Maximum DC Reverse Current @T_j=25°C at Rated DC Blocking Voltage @T_j=100°C	I _R	0.15 15	mA
Typical Junction Capacitance (Note 4)	Cj	230	pF
Typical Thermal Resistance (Notes 5, 7)	$R_{\Theta JL}$	18	°C/W
Typical Thermal Resistance (Notes 6, 7)	R _{OJA}	60	°C/W
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{STG}	-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 B340

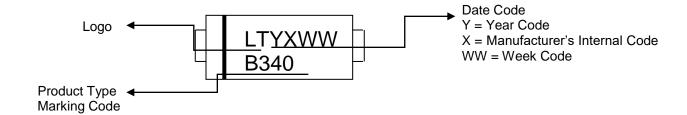




Ordering Information:

Part Number	Package	Packing		
		Qty.	Carrier	
B340	SMC	3000	Tape & Reel	

Marking Information:





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