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B340LA/B

Features

- Very Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideally Suited for Automated Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 70A Peak
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

3.0A LOW VF SCHOTTKY BARRIER RECTIFIER

Mechanical Data

- Case: SMA/SMB
- Case Material: Molded Plastic; UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Lead Free Plating (Matte Tin Finish). Solderable per MIL-STD-202, Method 208 (3)
- Polarity: Cathode Band or Cathode Notch
- Weight: SMA 0.064 grams (Approximate) SMB 0.093 grams (Approximate)

SMA/SMB



Top View



Ordering Information (Note 4)

Part Number	Case	Packaging
B340LA-13-F	SMA	5,000/Tape & Reel
B340LB-13-F	SMB	3,000/Tape & Reel

1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. All applicable RoHS exemptions applied.

 See http://www.diodes.com/quality/lead_free.html 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. For packaging details, go to our website at http://www.diodes.com/products/packages.html.

Marking Information

Notes:

SMA/SMB



B340LA = Product Type Marking Code, ex: B340LA (SMA Package) B340LB = Product Type Marking Code, ex: B340LB (SMB Package));; = Manufacturer's Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 6 for 2016) WW = Week Code (01 to 53)



Maximum Ratings ($@T_A = +25^{\circ}C$, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.			
Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	V
Average Rectified Output Current (Note 5) $T_T = +90^{\circ}C$	lo	3.0	А
Non-Repetitive Peak Forward Surge Current, Single Sine-Wave Superimposed on Rated Load, 60Hz	I _{FSM}	70	А

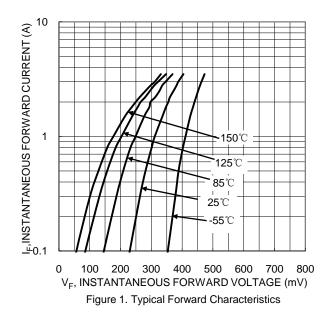
Thermal Characteristics

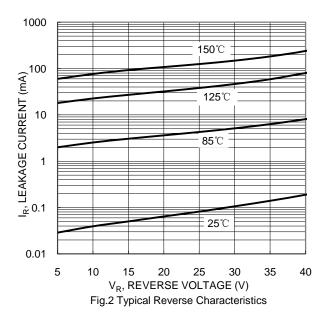
Characteristic	Symbol	Value	Unit
Operating and Storage Temperature Range	T _{J,} T _{STG}	-55 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

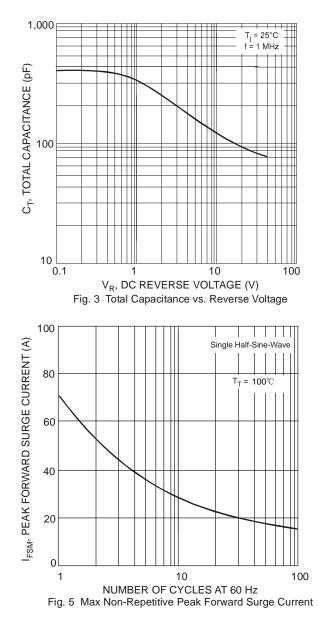
Characteristic	Symbol	Min	Тур	Max	Unit	Conditions
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	40	_		V	$I_R = 2.0 \text{mA}$
Forward Voltage Drop	\/_	_	0.310	0.350	V	I _F = 1.0A
roiward voltage brop	VF			0.450	v	I _F = 3.0A
			_	150	μΑ	V _R = 15V
Leakage Current (Note 6)	IR			1.0	mA	$V_R = 20V$
				2.0		$V_R = 40V$
Total Capacitance	Ст		180		pF	$f = 1MHz, V_R = 4.0VDC$
Thermal Resistance, Junction to Terminal	$R_{\theta JT}$		35	_	°C/W	

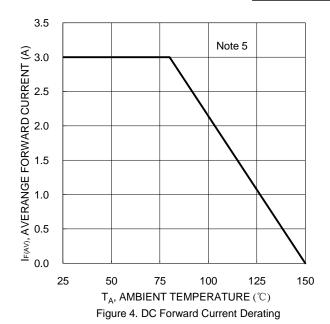
Notes: 5. Device mounted on FR-4 substrate, 0.4"*0.5", 2oz, single-sided, PC boards with 0.2"*0.25" copper pad. 6. Short duration pulse test used to minimize self-heating effect.









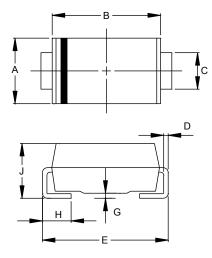




Package Outline Dimensions

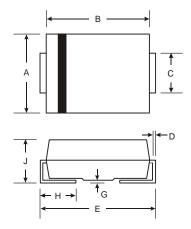
Please see http://www.diodes.com/package-outlines.html for the latest version.

1) Package Type:SMA



SMA			
Dim	Min	Max	
Α	2.29	2.92	
В	4.00	4.60	
С	1.27	1.63	
D	0.15	0.31	
E	4.80	5.59	
G	0.05	0.20	
Н	0.76	1.52	
J	1.96	2.40	
All Dimensions in mm			

2) Package Type:SMB



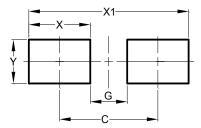
SMB		
Dim	Min	Max
Α	3.30	3.94
В	4.06	4.57
С	1.96	2.21
D	0.15	0.31
E	5.00	5.59
G	0.05	0.20
н	0.76	1.52
J	2.00	2.50
All Dimensions in mm		



Suggested Pad Layout

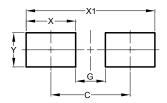
Please see http://www.diodes.com/package-outlines.html for the latest version.

1) Package Type:SMA



Dimensions	Value (in mm)
С	4.00
G	1.50
Х	2.50
X1	6.50
Y	1.70

2) Package Type:SMB



Dimensions	Value (in mm)
С	4.30
G	1.80
Х	2.50
X1	6.80
Y	2.30



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- 2. support or sustain life and whose failure to perform when properly used in accordance with instructions for
 - use provided in the labeling can be reasonably expected to result in significant injury to the user.
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