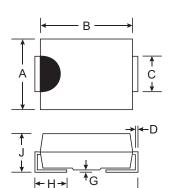


B130LB

1.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

Guard Ring Die Construction for Transient Protection Ideally Suited for Automatic Assembly Low Power Loss, High Efficiency Surge Overload Rating to 40A Peak For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application High Temperature Soldering: 260 C/10 Second at Terminal Lead Free Finish/RoHS Compliant (Note 2)



F

SMB				
Dim	Min	Max		
Α	3.30	3.94		
В	4.06	4.57		
С	1.96	2.21		
D	0.15	0.31		
Е	5.00	5.59		
G	0.10	0.20		
н	0.76	1.27		
J	2.00	2.40		
All Dimensions in mm				

Mechanical Data

Case: SMB

Case Material: UL Flammability Classification Rating 94V-0

Moisture Sensitivity: Level 1 per J-STD-020C

Terminals: Lead Free Plating (Matte Tin Finish). Solderable per MIL-STD-202, Method 208 (3)

Polarity: Cathode Band or Cathode Notch

Marking Information: See page 3

Ordering Information: See page 3

Weight: 0.093 grams (approximate)

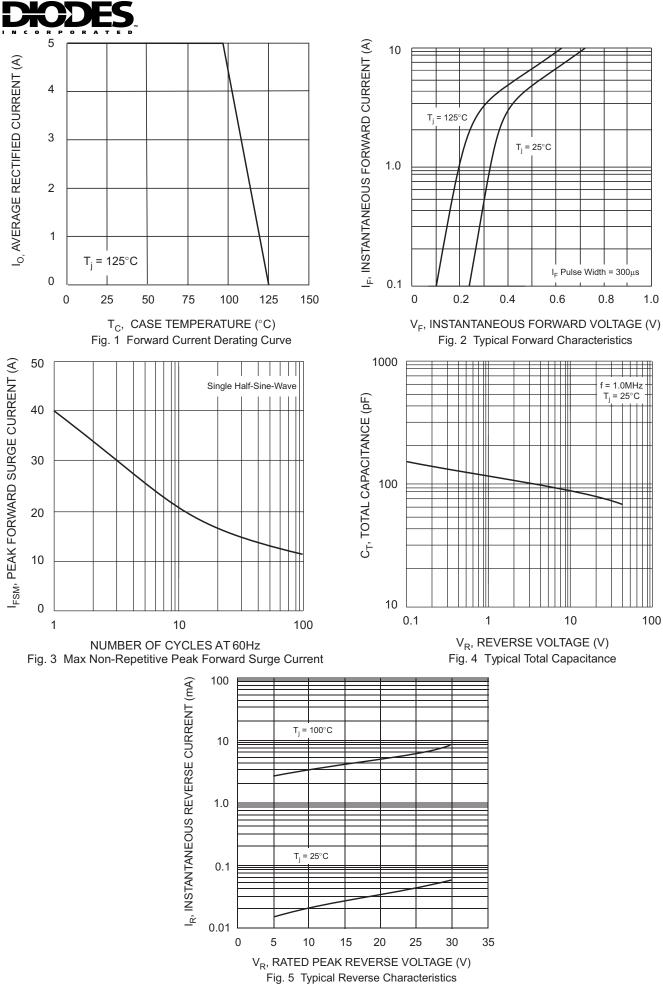
Maximum Ratings and Electrical Characteristics @ T_A = 25 C unless otherwise specified

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	30	V
RMS Reverse Voltage	V _{R(RMS)}	21	V
		1.0 2.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Loa	d I _{FSM}	40	A
Forward Voltage @ I _F = 1.0A @ I _F = 2.0A		0.395 0.445	V
Peak Reverse Current@ $T_A = 25 C$ at Rated DC Blocking Voltage@ $T_A = 100 C$		1.0 20	mA
Typical Total Capacitance (Note 1)	CT	90	pF
Typical Thermal Resistance Junction to Terminal	R _{JT}	12	C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +125	С

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. RoHS revision 13.2.2003. High Temperature Solder Exemption Applied, see EU Directive Annex Note 7.





Ordering Information (Note 3)

Device	Packaging	Shipping
B130LB-13-F	SMB	3000/Tape & Reel

Notes: 3. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



B130LB = Product type marking code D11 = Manufacturers' code marking YWW = Date code marking Y = Last digit of year ex: 2 for 2002 WW = Week code 01 to 52 Band = Cathode

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