

# LOW VF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 30 Volts FORWARD CURRENT- 1.0 Ampere

#### **FEATURES**

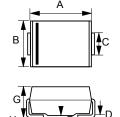
- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

### **MECHANICAL DATA**

• Case : Molded plastic

Polarity: Color band denotes cathode
Weight: 0.003 ounces, 0.093 grams

## SMB



	0110			
SMB				
DIM.	MIN.	MAX.		
Α	4.06	4.57		
В	3.30	3.94		
С	1.96	2.21		
D	0.15	0.31		
Е	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

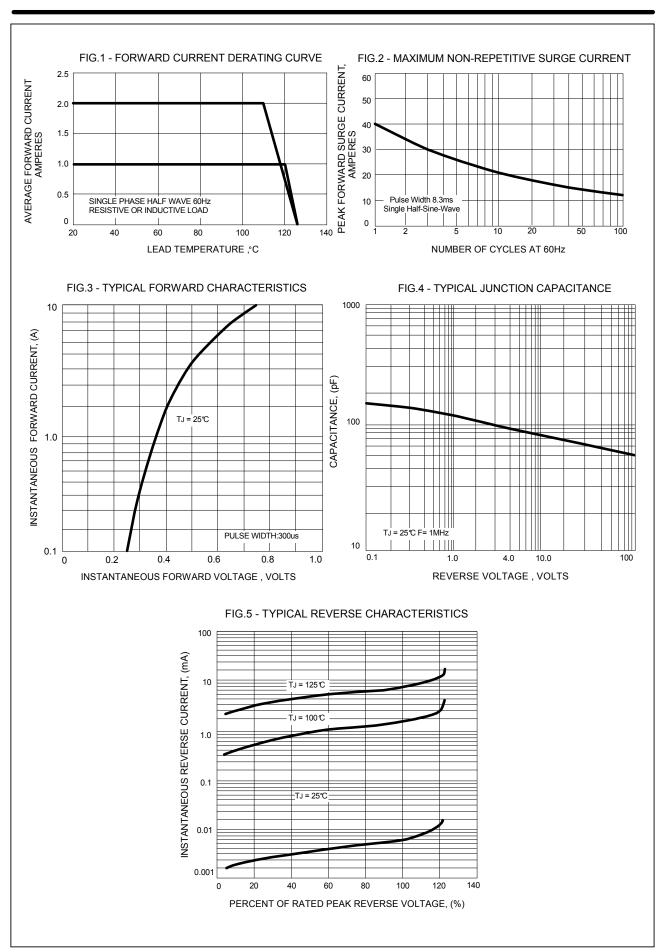
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B130LB	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	30	V
Maximum RMS Voltage	VRMS	21	V
Maximum DC Blocking Voltage	VDC	30	V
Maximum Average Forward @TL =120°C Rectified Current @TL =110°C	I(AV)	1.0 2.0	А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	IFSM	40	А
Maximum Instantaneous   F = 1.0A	s°C VF	0.395	
Forward Voltage at I <sub>F</sub> = 2.0A @T <sub>J</sub> = 25°C		0.445	V
Maximum DC Reverse Current @TJ=25°C	IR	1.0	mA
at Rated DC Blocking Voltage @TJ=100°C	IR	20	IIIA
Typical Junction Capacitance (Note 1)	Cı	90	pF
Typical Thermal Resistance (Note 2)	Rejl	20	
	Rejc	15	°C/W
	Reja	60	
Operating Temperature Range	TJ	-55 to +125	\ ℃
Storage Temperature Range	Тѕтс	-55 to +150	°C

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

2. Thermal Resistance Junction to Lead.







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