

B120B thru B160B

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 60 Volts FORWARD CURRENT - 1.0 Ampere

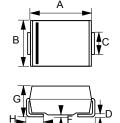
FEATURES

- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- IEC 61000-4-2, level 4 (ESD), >15KV (air)

MECHANICAL DATA

- Case : Molded plastic
- Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Polarity : Color band denotes cathode.
- Weight: 0.003 ounces, 0.093 grams

SMB



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

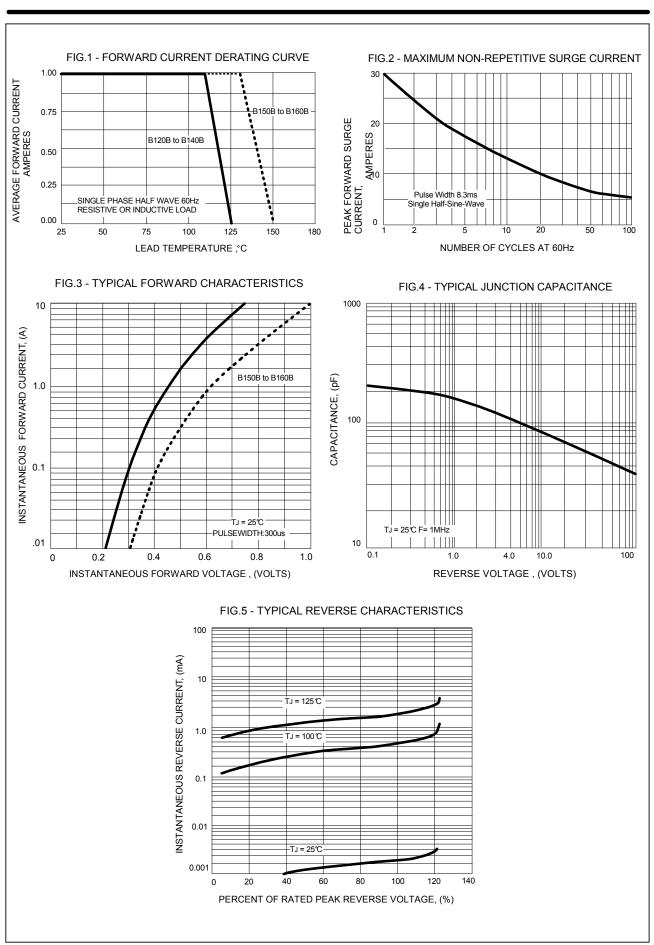
CHARACTERISTICS	SYMBOL	B120B	B130B	B140B	B150B	B160B	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	V
Maximum Average Forward Rectified Current (see Fig.1)	I(AV)	1.0					
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	IFSM			30			А
Maximum forward Voltage at 1.0A DC	VF		0.5		0	.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =100°C	lR	0.1 0.5 10 10					mA
Typical Junction Capacitance (Note 1)	Сл	110					
Typical Thermal Resistance (Note 2)	Rejl	22					°C/W
Operating Temperature Range	TJ		-55 to +125		-55 to	o +150	°C
Storage Temperature Range	Тѕтс	-55 to +150					°C

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

2.Unit mounted on 0.75t glass-epoxy substrate with 2x3 mm copper pad.

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