

B370B thru B3100B

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 70 to 100 Volts FORWARD CURRENT - 3.0 Amperes

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

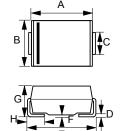
MECHANICAL DATA

• Case : Molded plastic

• Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".

Polarity: Color band denotes cathodeWeight: 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

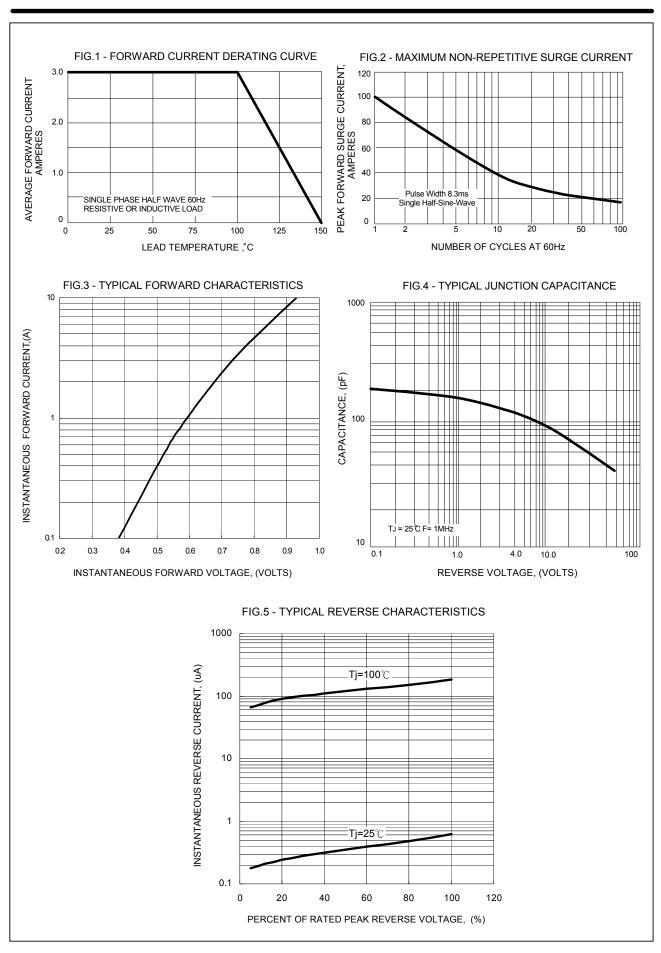
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	3	SYMBOL	B370B	B380B	B390B	B3100B	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	70	80	90	100	V
Maximum RMS Voltage		VRMS	49	56	63	70	V
Maximum DC Blocking Voltage		VDC	70	80	90	100	V
Maximum Average Forward Rectified Current	@T∟=100°C	I(AV)		3	.0		Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load		IFSМ		10	00		А
Maximum Forward Voltage at 3.0A DC	@TJ=25°C @TJ=100°C	VF	0.79 0.69			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _J =25°C @T _J =100°C	lR			.5 20	0.01 20	mA
Typical Junction Capacitance (Note 1)		Сл		1:	20		pF
Typical Thermal Resistance (Note	2)	Rejl		2	2		°C/W
Operating Temperature Range		TJ	-55 to +150				°C
Storage Temperature Range		Tstg	-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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