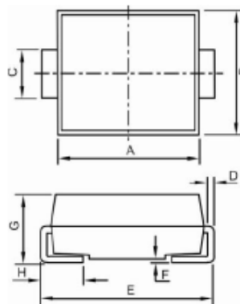




SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 3.0 Ampere																											
FEATURES <ul style="list-style-type: none"> • For surface mounted applications • Metal-Semiconductor junction with guardring • Epitaxial construction • Very Low forward voltage 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 	SMB  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Dim.</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>4.06</td> <td>4.75</td> </tr> <tr> <td>B</td> <td>3.30</td> <td>3.94</td> </tr> <tr> <td>C</td> <td>1.96</td> <td>2.21</td> </tr> <tr> <td>D</td> <td>0.15</td> <td>0.31</td> </tr> <tr> <td>E</td> <td>5.00</td> <td>5.59</td> </tr> <tr> <td>F</td> <td>----</td> <td>0.20</td> </tr> <tr> <td>G</td> <td>2.00</td> <td>2.50</td> </tr> <tr> <td>H</td> <td>0.76</td> <td>1.52</td> </tr> </tbody> </table> <p style="font-size: small; text-align: center;">All Dimensions in millimeter</p>	Dim.	Min.	Max.	A	4.06	4.75	B	3.30	3.94	C	1.96	2.21	D	0.15	0.31	E	5.00	5.59	F	----	0.20	G	2.00	2.50	H	0.76	1.52
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MECHANICAL DATA <ul style="list-style-type: none"> • Case : Molded plastic • Polarity : Indicated by cathode band • Weight : 0.002 ounces, 0.064 grams 																												

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	B3100B	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current @ $T_L=100^\circ C$	$I_{(AV)}$	3.0	A
Peak Forward Surge current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I_{FSM}	100	A
Maximum forward Voltage at 3.0A DC @ $T_J=25^\circ C$ @ $T_J=100^\circ C$	V_F	0.79 0.69	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J=25^\circ C$ @ $T_J=100^\circ C$	I_R	0.01 20	mA
Typical Junction Capacitance (Note 1)	C_J	120	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	22	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC. REV.0, 01.-Oct-2013
2. Unit mounted on 0.75t glass-epoxysubstrate with 2x3 mm copper pad.

RATING AND CHARACTERISTIC CURVES
B3100B

