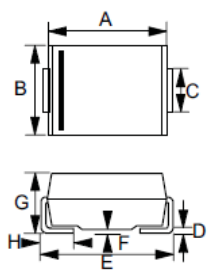


<b>SCHOTTKY BARRIER RECTIFIERS</b>		<b>REVERSE VOLTAGE 20 to 200 Volts FORWARD CURRENT 3 Amperes</b>																																							
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Metal-Semiconductor junction with guard ring</li> <li>• Epitaxial construction</li> <li>• Low forward voltage drop</li> <li>• High current capability</li> <li>• The plastic material carries UL recognition 94V-0</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case: SMB , molded plastic</li> <li>• Polarity: Color band denotes cathode</li> <li>• Weight: 0.095 grams</li> </ul>		<p style="text-align: center;">SMB</p> <div style="display: flex; justify-content: space-around; align-items: center;">  <table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="3">SMB</th> </tr> <tr> <th>DIM.</th> <th>MIN.</th> <th>MAX.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>4.06</td> <td>4.70</td> </tr> <tr> <td>B</td> <td>3.30</td> <td>3.94</td> </tr> <tr> <td>C</td> <td>1.91</td> <td>2.11</td> </tr> <tr> <td>D</td> <td>0.15</td> <td>0.31</td> </tr> <tr> <td>E</td> <td>5.08</td> <td>5.59</td> </tr> <tr> <td>F</td> <td>0.05</td> <td>0.20</td> </tr> <tr> <td>G</td> <td>2.13</td> <td>2.44</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> </div>										SMB			DIM.	MIN.	MAX.	A	4.06	4.70	B	3.30	3.94	C	1.91	2.11	D	0.15	0.31	E	5.08	5.59	F	0.05	0.20	G	2.13	2.44	H	0.76	1.52
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<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b>  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%</p>																																									
Characteristics	Symbol	B320B -HF	B330B -HF	B340B -HF	B350B -HF	B360B -HF	B380B -HF	B3100B -HF	B3150B -HF	B3200B -HF	Unit																														
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V																														
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V																														
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V																														
Maximum Instantaneous Forward Voltage $I_F=3A$ @25°C	$V_F$	0.5		0.7		0.85		0.87		0.9	V																														
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	$I_R$	0.5 10				0.2 5					mA																														
Maximum Average Forward Rectified Current	$I_F$	3										A																													
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	$I_{FSM}$	80										A																													
Typical Junction Capacitance	$C_J$	180		150		110		100		80	pF																														
Typical Thermal Resistance	$R_{\theta Ja}$	70										°C/W																													
	$R_{\theta Jc}$	30																																							
Operating Temperature Range	$T_J$	-55 to +125										°C																													
Storage Temperature Range	$T_{STG}$	-55 to +150										°C																													

## Rating and Characteristic Curves

