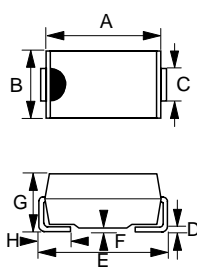


<b>SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS</b>	<b>REVERSE VOLTAGE - 70 to 100 Volts FORWARD CURRENT - 1.0 Ampere</b>
--	---

<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• For surface mounted applications</li> <li>• Metal-Semiconductor junction with guardring</li> <li>• Epitaxial construction</li> <li>• Very Low forward voltage drop</li> <li>• High current capability</li> <li>• Plastic material has UL flammability classification 94V-0</li> <li>• For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case : Molded plastic</li> <li>• Polarity : Indicated by cathode band</li> <li>• Weight : 0.002 ounces, 0.064 grams</li> </ul>	<p><b>SMA</b></p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3">SMA</th> </tr> <tr> <th>DIM.</th> <th>MIN.</th> <th>MAX.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>4.06</td> <td>4.57</td> </tr> <tr> <td>B</td> <td>2.29</td> <td>2.92</td> </tr> <tr> <td>C</td> <td>1.27</td> <td>1.63</td> </tr> <tr> <td>D</td> <td>0.15</td> <td>0.31</td> </tr> <tr> <td>E</td> <td>4.83</td> <td>5.59</td> </tr> <tr> <td>F</td> <td>0.05</td> <td>0.20</td> </tr> <tr> <td>G</td> <td>2.01</td> <td>2.62</td> </tr> <tr> <td>H</td> <td>0.76</td> <td>1.52</td> </tr> </tbody> </table> <p style="font-size: small;">All Dimensions in millimeter</p>	SMA			DIM.	MIN.	MAX.	A	4.06	4.57	B	2.29	2.92	C	1.27	1.63	D	0.15	0.31	E	4.83	5.59	F	0.05	0.20	G	2.01	2.62	H	0.76	1.52
SMA																															
DIM.	MIN.	MAX.																													
A	4.06	4.57																													
B	2.29	2.92																													
C	1.27	1.63																													
D	0.15	0.31																													
E	4.83	5.59																													
F	0.05	0.20																													
G	2.01	2.62																													
H	0.76	1.52																													

<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b></p> <p>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	B170	B180	B190	B1100	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	70	80	90	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	49	56	63	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	70	80	90	100	V
Maximum Average Forward Rectified Current @T <sub>L</sub> =100°C	I(AV)	1.0				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	I <sub>FSM</sub>	30				A
Maximum forward Voltage at 1.0A DC @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	V <sub>F</sub>	0.79 0.69				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	I <sub>R</sub>	0.5 5.0				mA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	30				pF
Typical Thermal Resistance (Note 2)	R <sub>θJL</sub>	25				°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125				°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150				°C

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2.Thermal Resistance Junction to Lead.

REV. 2, 01-Dec-2000, KSHA02

