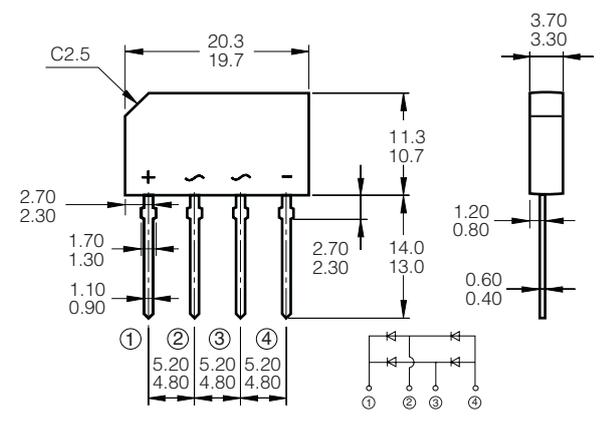


## 1.5 Amp. Glass Passivated Bridge Rectifiers

<p><b>Dimensions in mm.</b></p>  <p style="text-align: center;"><b>GBL</b></p>	<p style="text-align: center;"><b>Voltage</b> 400 V to 1000 V</p> <p style="text-align: center;"><b>Current</b> 1.5 A</p> <ul style="list-style-type: none"> <li>Glass passivated chip junction</li> <li>Ideal for printed circuit board</li> <li>High case dielectric strength</li> <li>Plastic material has Underwriters Laboratory Flammability Classification 94V-0</li> <li>Typical IR less than 0.1μA</li> <li>High surge current capability</li> <li>High temperature soldering guaranteed: 260 °C / 10 seconds / 9.5mm, lead lengths.</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>Case: Molded plastic body.</li> <li>Terminals: Pure tin plated, Lead free, leads solderable per MIL-STD-750, Method 2026.</li> <li>Weight: 0.071 ounce, 2.0 grams</li> <li>Mounting position: Any</li> </ul>
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### Maximum Ratings and Electrical Characteristics at 25 °C

		D2SBA 40	D2SBA 60	D2SBA 80	D2SBA 100
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000
$V_{RMS}$	Maximum RMS Voltage (V)	280	420	560	700
$V_{DC}$	Maximum DC Blocking Voltage (V)	400	600	800	1000
$I_{F(AV)}$	Maximum Average Forward Rectified Current @ $T_A = 25\text{ °C}$	1.5 A			
$I_{FSM}$	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	60 A			
$I^2t$	Rating for fusing ( $t < 8.3\text{ ms}$ )	15 A <sup>2</sup> sec			
$T_j$	Operating Temperature Range	-55 to +150 °C			
$T_{stg}$	Storage Temperature Range	-55 to +150 °C			

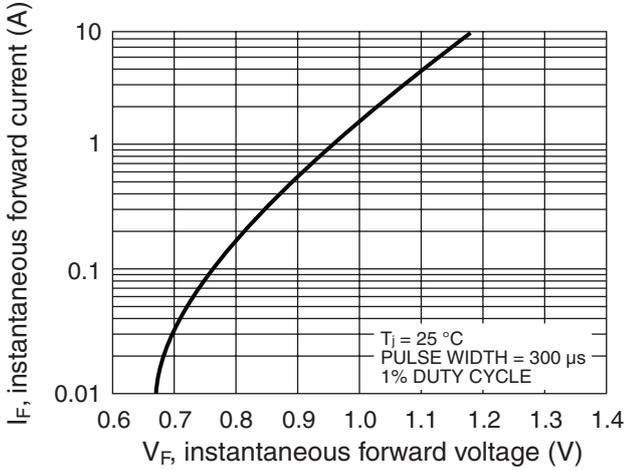
### Electrical Characteristics at $T_{amb} = 25\text{ °C}$

$V_F$	Maximum Instantaneous Forward Voltage per leg @ = 1.0 A	1.05 V
$I_R$	Maximum DC Reverse Current @ $T_A = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_A = 125\text{ °C}$	10 μA 500 μA
$R_{th(j-a)}$	Typical Thermal Resistance Per Leg (Note)	32 °C/W
$R_{th(j-c)}$		13 °C/W

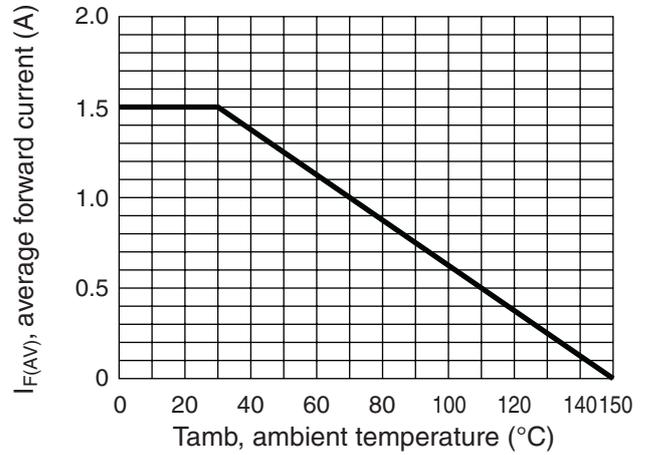
Note: 1. Units Mounted In Free Air No Heat Sink On P.C.B. 12 x 12mm Copper Pads, 9.5mm Lead Length.

**Rating And Charasterictic Curves**

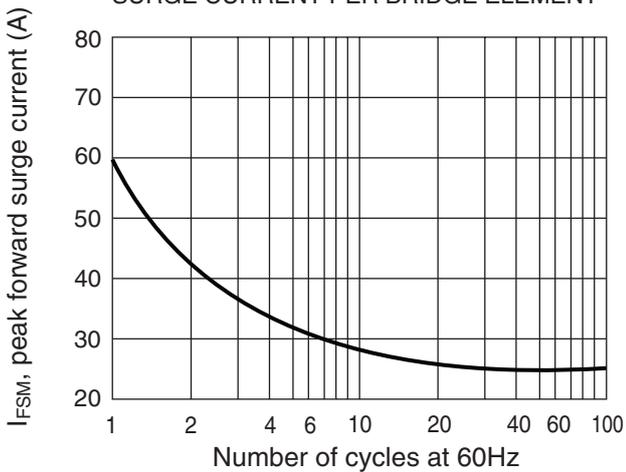
TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



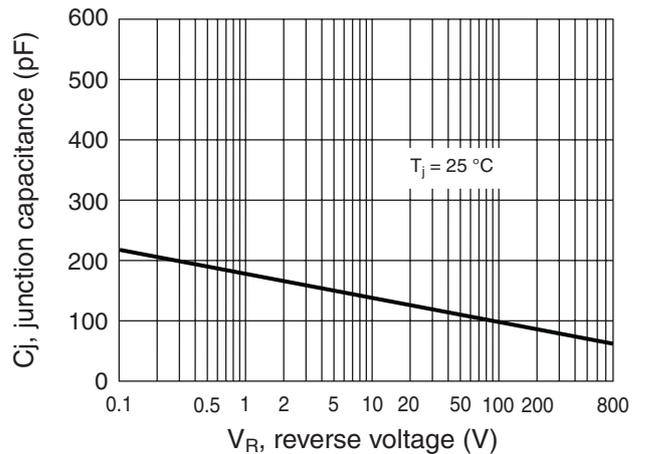
MAXIMUM FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

