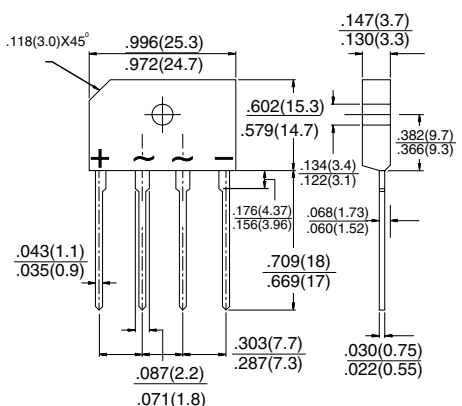



6.0 Amp. Glass Passivated Bridge Rectifier

<p style="text-align: center;">Plastic Case</p>  <ul style="list-style-type: none"> • Mounting Instructions • High temperature soldering guaranteed: 260 °C – 10 sc. • Recommended mounting torque: 8 Kg.cm. 	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">Voltage 400 to 1000 V.</td> <td style="text-align: center; width: 50%;">Current 6.0</td> </tr> </table> <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> • Glass Passivated Junction Chips. • Lead and polarity identifications. • Case: Molded Plastic. • Ideal for printed circuit board (P.C.B.). • High surge current capability. • The plastic material carries U/L recognition 94 V-O. 	Voltage 400 to 1000 V.	Current 6.0
Voltage 400 to 1000 V.	Current 6.0		

Maximum Ratings and Electrical Characteristics at 25 °C

		D6SB 40	D6SB 60	D6SB 80	D6SB 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 See Fig.	6.0 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 A			
T_j	Operating Temperature Range	-55 to +150 °C			
T_{stg}	Storage Temperature Range	-55 to +150 °C			

Electrical Characteristics at Tamb = 25 °C

V_F	Maximum Instantaneous Forward Voltage @ = 3.0 A @ = 6.0 A	1.0 V 1.1 V
I_R	Maximum DC Reverse Current @ $T_A = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_A = 125\text{ °C}$	5 μ A 500 μ A
$R_{th(j-c)}$	Typical Thermal Resistance (Note)	1.5 °C/W

Note: Thermal Resistance from Junction to Case with Device Mounted on 2" x 3" x 0.25 Al-Plate Heatsink.

Rating And Characteristic Curves

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

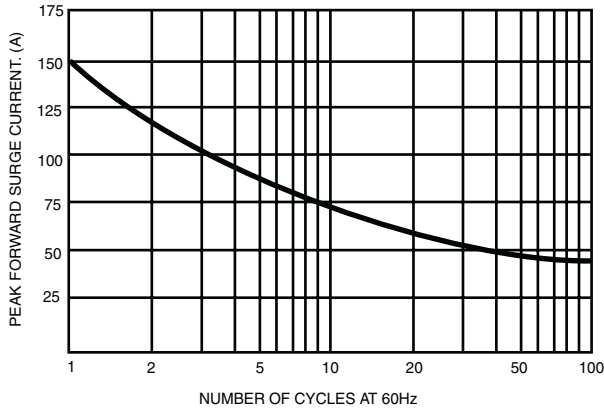


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

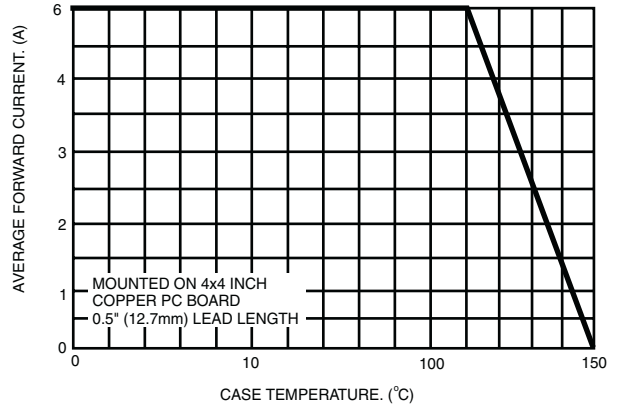


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

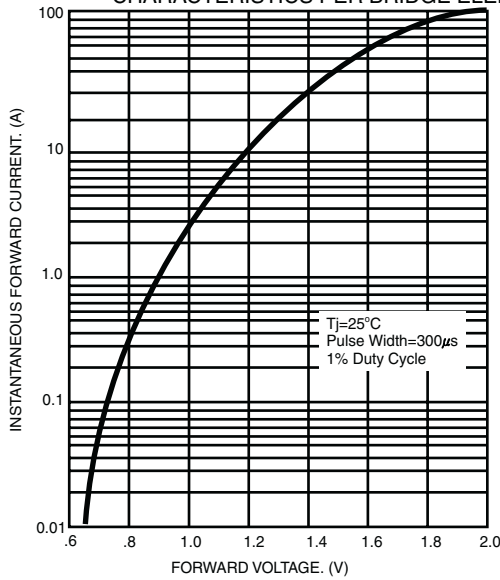


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

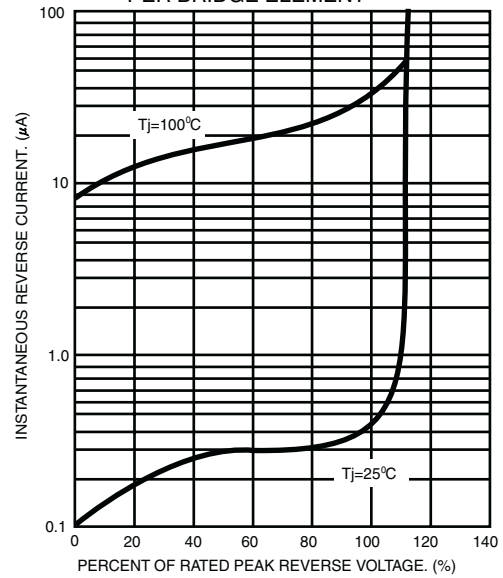


FIG. 5- TYPICAL JUNCTION CAPACITANCE

