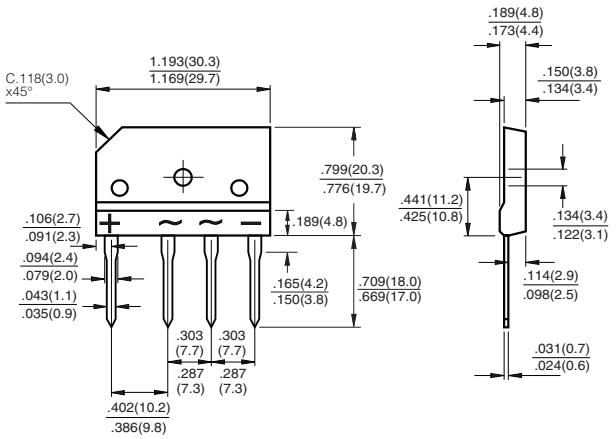
25 Amp. Glass Passivated Bridge Rectifier

Plastic Case



• Mounting Instructions

- High temperature soldering guaranteed: 260 ºC – 10 sc.
- Recommended mounting torque: 8 Kg.cm.

Voltage	Current
600 to 1000 V	25 A

HYPERECTIFIER®

• Glass Passivated Junction Chips.

- The plastic material carries U/L recognition 94 V-O.
- Lead and polarity identifications.
- Case: Molded Plastic.
- Ideal for printed circuit board
- High surge current

Maximum Ratings, according to IEC publication No. 134

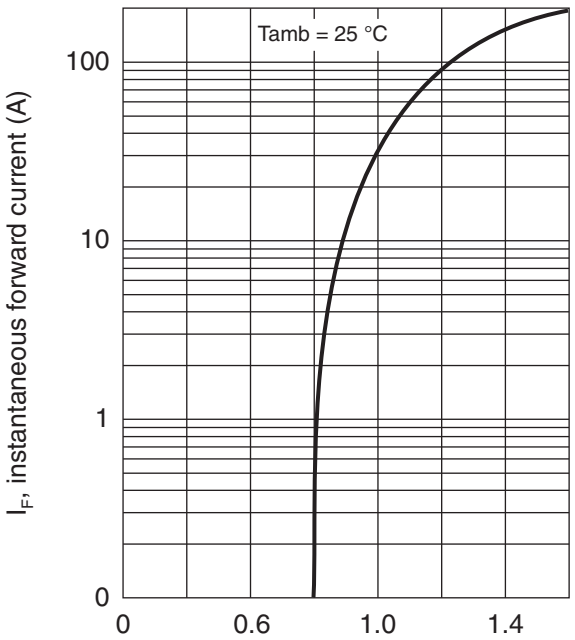
		D25XB 40	D25XB 60	D25XB 80	D25XB 100
V_{RRM}	Peak recurrent reverse voltage (V)	400	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	280	420	560	700
$I_{F(AV)}$	Max. Average forward current with heatsink without heatsink	25.0 A at Tc: 75 °C 3.2 A at 25 °C			
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	300 A			
I^2t	Current squared time (rating for fusing) (1ms.<t<10ms. Tc = 25°C)	373 A^2sec			
V_{DIS}	Dielectric strength (terminals to case, AC 1 min.)	2500 V			
T_j	Operating temperature range	-55 to +150 °C			
T_{stg}	Storage temperature range	-55 to +150 °C			

Electrical Characteristics at Tamb = 25 °C

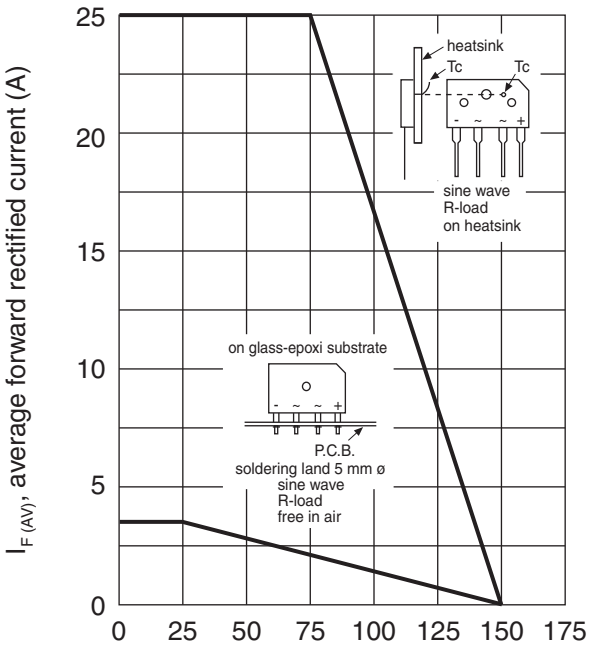
V_F	Max. forward voltage drop per diode at I_F = 25 A	1.10 V
I_R	Max. instantaneous reverse current at V_{RRM}	5 µA
	MAXIMUM THERMAL RESISTANCE	
$R_{th\ (j\text{-}c)}$	Junction-case. With Heatsink.	1 °C/W
$R_{th\ (j\text{-}a)}$	Junction-Ambient. Without Heatsink.	35 °C/W

Rating And Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT