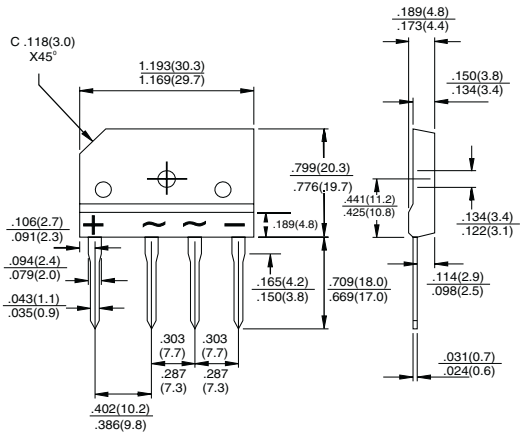
FAGOR

D15XB40.....D15XB100

15 Amp. Glass Passivated Bridge Rectifier

Plastic Case



• Mounting Instructions

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

Voltage 400 to 1000

Current 15 A.

HYPERECTIFIER®

• 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.

Maximum Ratings, according to IEC publication No. 134

		D15XB 40	D15XB 60	D15XB 80	D15XB 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	15.0 A at Tc: 107 ºC 3.5 A at 25 ºC			
I_{FSM}	10 ms. peak forward surge current (Jedec Method)	200 A			
V_{DIS}	Dielectric strength (terminals to case, AC 1 min.)	2000 V			
I^2t	Current squared time (rating for fusing) (1ms.<t<10ms. Tc = 25ºC)	110 A^2sec			
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 = 7.5 A I_F =15.0 A	1.00 V 1.10 V
I_R	Max. instantaneous reverse current at V_{RRM}	10 µA
	MAXIMUM THERMAL RESISTANCE	
$R_{th\ (j-c)}$	Junction-Case. With Heatsink.	1.5 °C/W
$R_{th\ (j-a)}$	Junction-Ambient. Without Heatsink.	22 °C/W

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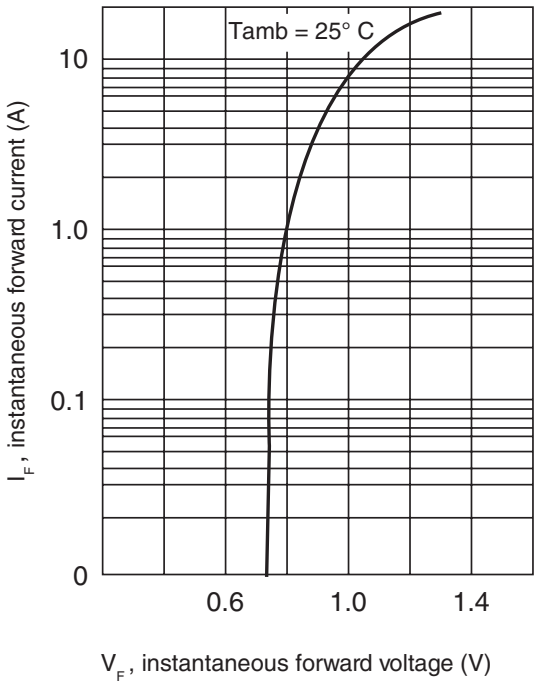
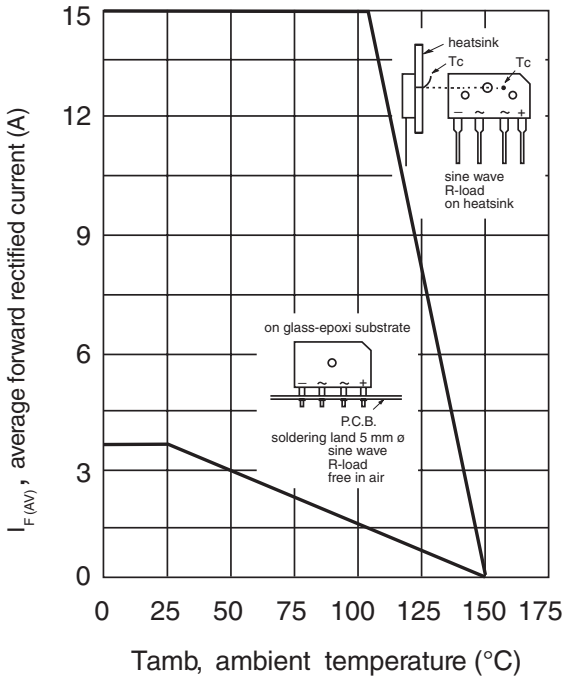
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT