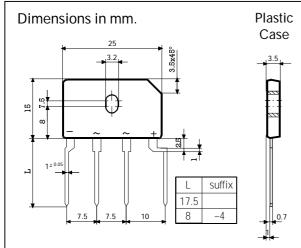
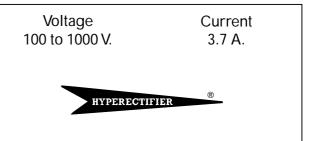


3.7 Amp. Glass Passivated Bridge Rectifier



- Mounting Instructions
- High temperature soldering guaranteed: 260 °C 10 sc.
- Recommended mounting torque: 8 Kg.cm.



- Glass Passivated Junction Chips.
- UL recognized under component index file number E130180.
- · 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

		FBI3.7B 1M1	FBI3.7D 1M1	FBI3.7F 1M1	FBI3.7J 1M1	FBI3.7L 1M1	FBI3.7M 1M1
V_{RRM}	Peak Recurrent Reverse Voltage (V)	100	200	300	600	900	1000
V_{RMS}	Maximum RMS Voltage (V)	70	140	210	420	630	700
V _R	Recommended Input Voltage (V)	40	80	125	250	380	500
I _{F(AV)}	Max. Average forward current with heatsink without heatsink	3.7 A at 100 °C 3.0 A at 25 °C					
I _{FRM}	Recurrent peak forward current	20 A					
IFSM	10 ms. peak forward surge current	150 A					
I ² t	I ² t value for fusing (t = 10 ms)	110 A ² sec					
VDIS	Dielectric strength (terminals to case, AC 1 min.)	1500 V					
T _j	Operating temperature range	– 40 to + 150 °C					
T _{stg}	Storage temperature range	- 40 to +150 °C					

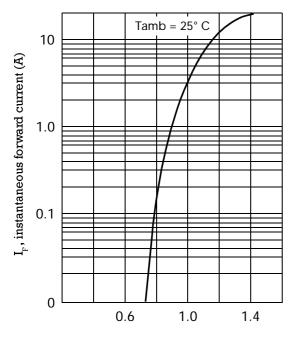
Electrical Characteristics at Tamb = 25°C

V _F	Max. forward voltage drop per element at $I_F = 3 A$	1.1 V
I _R	Max. reverse current per element at V_{RRM}	5μΑ
	MAXIMUM THERMAL RESISTANCE	
R _{th (j-c)}	Junction-Case. With Heatsink.	5 °C/W
R _{th (j-a)}	Junction-Ambient. Without Heatsink.	22 °C/W



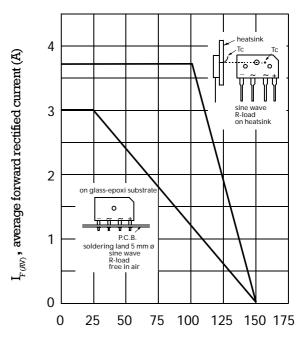
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



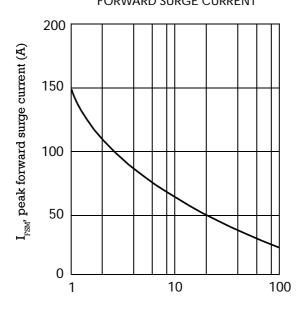
 $V_{_{\rm F}}$, instantaneous forward voltage (V)

FORWARD CURRENT DERATING CURVE



Tamb, ambient temperature (°C)

MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



Number of cycles at 50 Hz.