

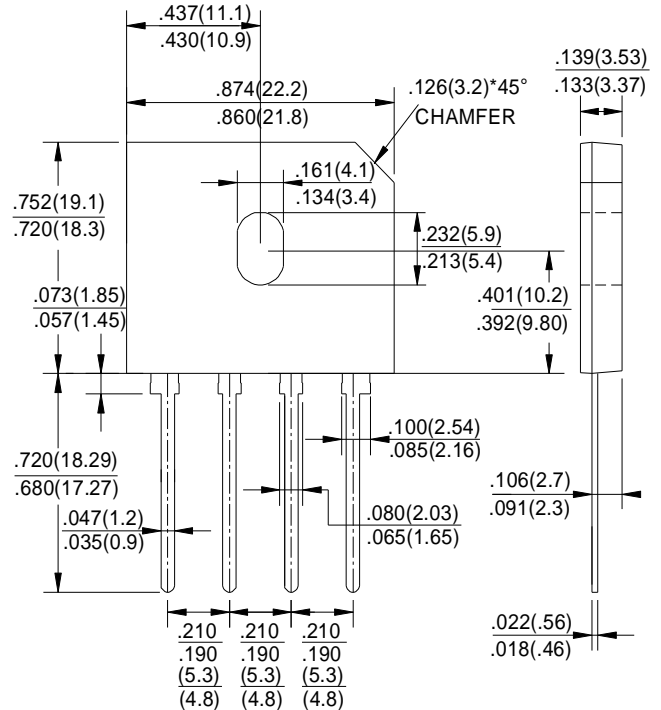
## GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - **600**Volts  
FORWARD CURRENT - **25.0** Amperes

### FEATURES

- Surge overload rating -350 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-0
- Mounting position: Any

### GBU



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBU2506F	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T <sub>C</sub> =100°C (without heatsink)	I <sub(av)< sub=""></sub(av)<>	25.0 4.2	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	350	A
Maximum Forward Voltage at 12.5A DC	V <sub>F</sub>	0.95	V
Maximum DC Reverse Current @ T <sub>J</sub> =25°C at Rated DC Blocking Voltage @ T <sub>J</sub> =125°C	I <sub>R</sub>	10.0 500	μA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	200	A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	C <sub>J</sub>	70	pF
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 100mm\*100mm\*1.6mm Cu plate heatsink.

FIG.1-MAXIMUM FORWARD SURGE CURRENT

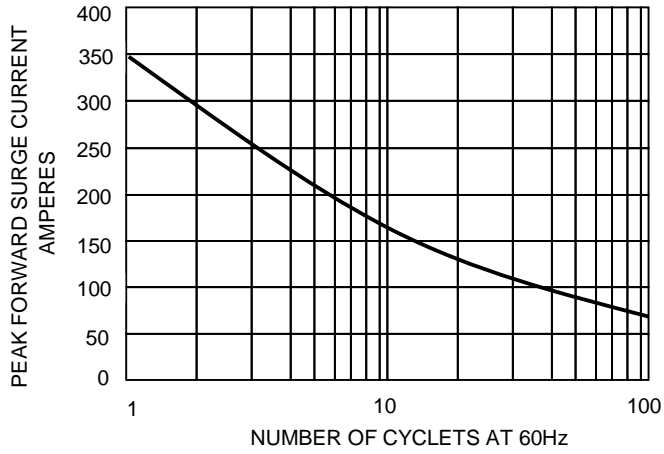


FIG.2- DERATING CURVE  
 OUTPUT RECTIFIED CURRENT

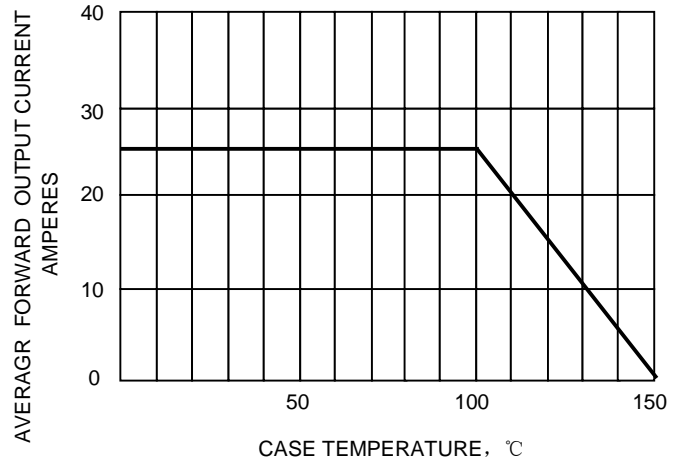


FIG.3-TYPICAL FORWARD  
 CHARACTERISTICS

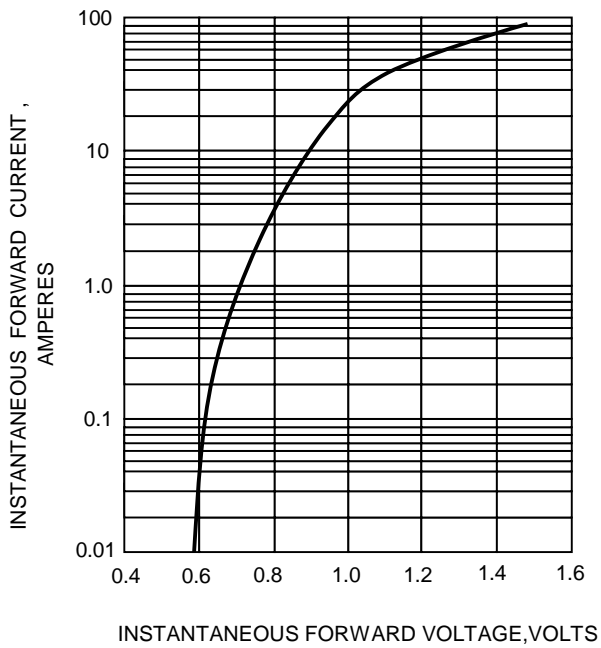


FIG.4-TYPICAL REVERSE  
 CHARACTERISTICS

