



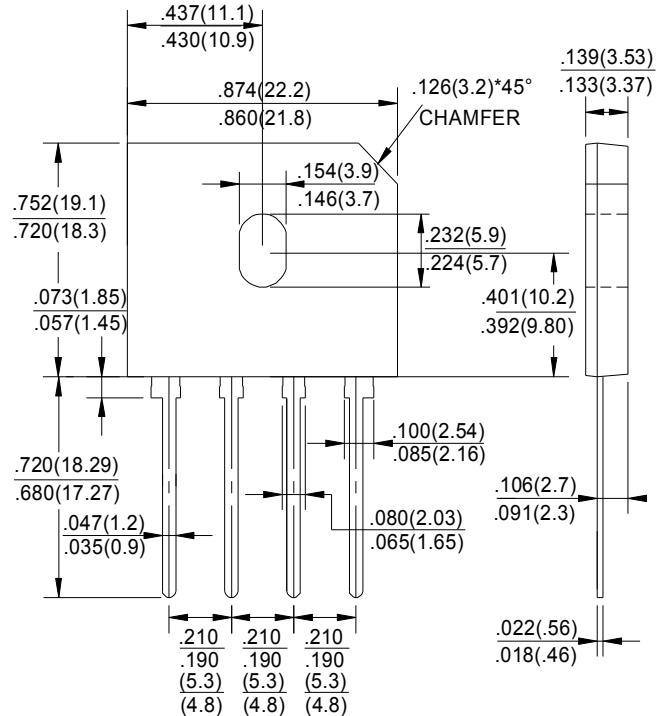
**GLASS PASSIVATED
BRIDGE RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000Volts
FORWARD CURRENT - 8.0 Amperes

FEATURES

- Surge overload rating -200 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L the 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	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	v	
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	v	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	v	
Maximum Average Forward Rectified Current @ Tc=100°C (without heatsink)	I(AV)	8.0							3.2	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	200								A
Maximum Forward Voltage at 4.0A DC	VF	1.1								V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ Tj=25°C @ Tj=125°C	IR	10.0							500	μA
I ² t Rating for Fusing (t<8.3ms)	I ² t	166								A ² s
Typical Junction Capacitance Per Element (Note1)	CJ	60								pF
Typical Thermal Resistance	RθJC	2.2								°C/W
Operating Temperature Range	TJ	-55 to +150								°C
Storage Temperature Range	TSTG	-55 to +150								°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Device mounted on 75mm*75mm*1.6mm Cu plate heatsink.



FIG.1-FORWARD CURRENT DERATING CURVE

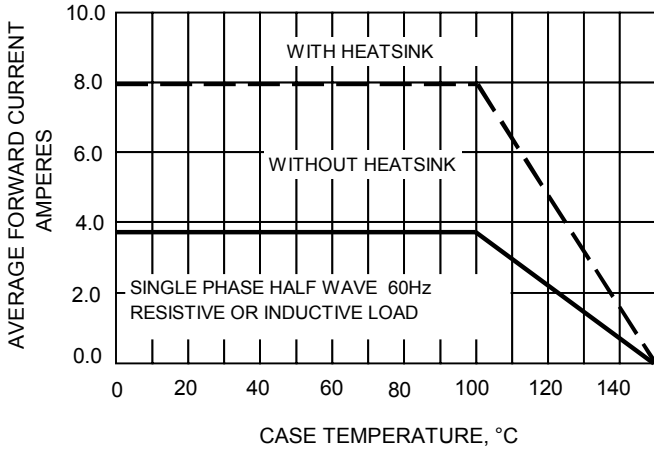


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

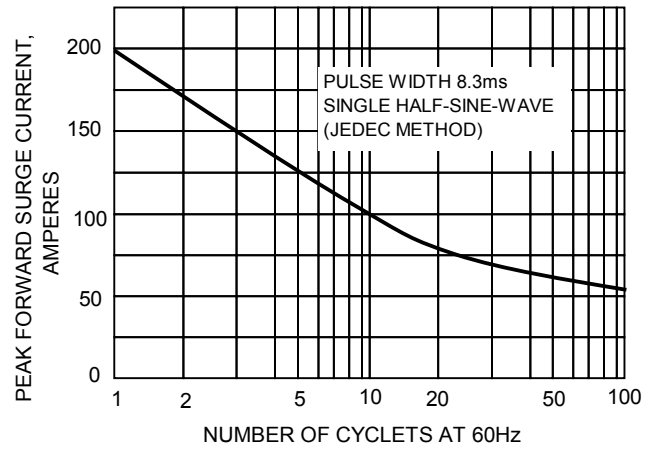


FIG.3-TYPICAL JUNCTION CAPACITANCE

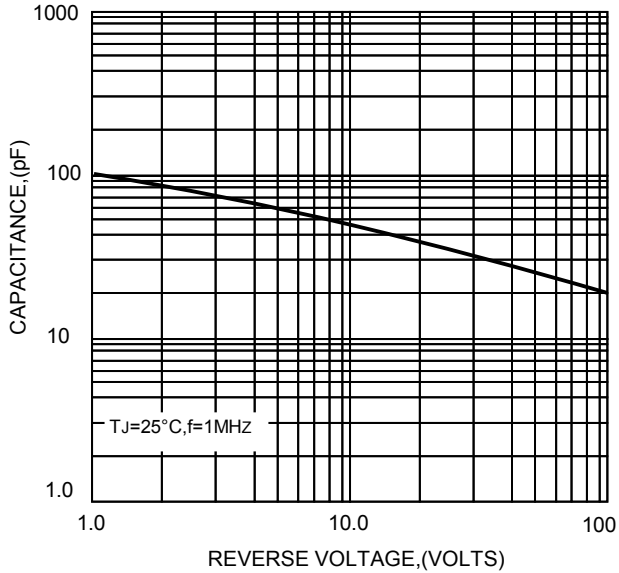


FIG.4-TYPICAL FORWARD CHARACTERISTICS

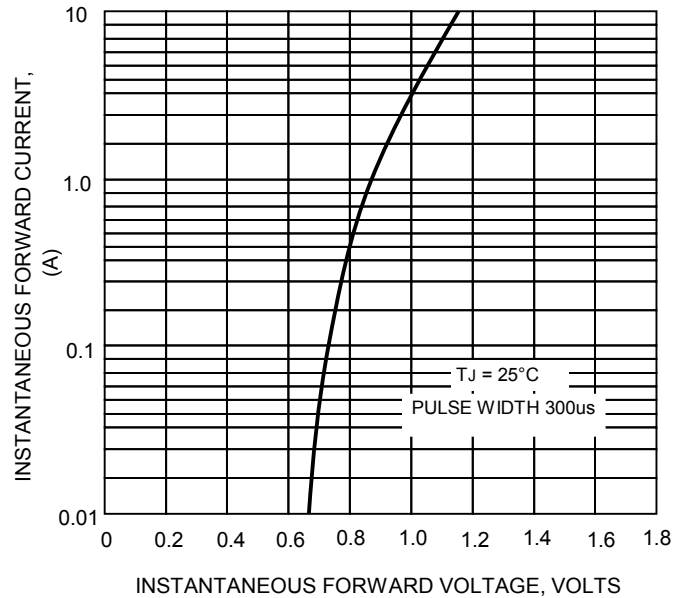


FIG.5-TYPICAL REVERSE CHARACTERISTICS

