

GPJ8A~GPJ8M

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volts **CURRENT** 8.0 Ampere

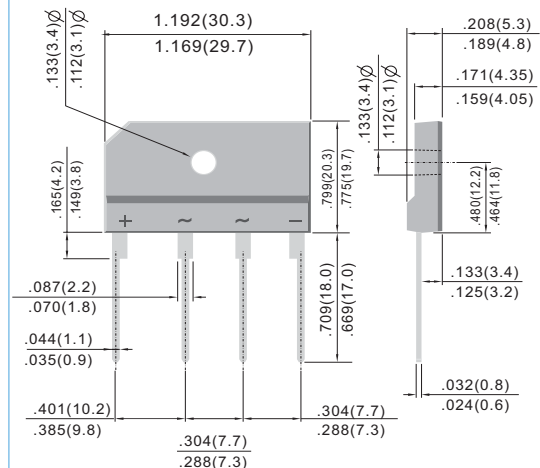
FEATURES

- Plastic material has Underwriters Laboratory, Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed:
260°C/10 seconds/.375"(9.5mm) lead length at 5 lbs. (2.3kg) tension
- Pb free product are available : 99% Sn above can meet RoHS environment substance diective request

MECHANICALDATA

- Case: Reliable low cost construction utilizing
- molded plastic technique
- Terminals: Leads solderable per MIL-STD-750,Method 2026
- Mounting position: Any
- Mounting torque: 5 in. lb. Max.
- Weight: 0.15 ounce, 4.0 grams

GPJ Unit: inch (mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.
For Capacitive load derate current by 20%.

PARAMETER	SYMBOL	GPJ8A	GPJ8B	GPJ8D	GPJ8G	GPJ8J	GPJ8K	GPJ8M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward $T_C=100^{\circ}C$ Rectified Output Current at $T_A=40^{\circ}C$	$I_{F(AV)}$	8.0 6.0							A
I^2t Rating for fusing ($t < 8.3ms$)	I^2t	166							A ² sec
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200							Apk
Maximum Instantaneous Forward Voltage Drop per element at 4.0A	V_F	1.1							Vpk
Maximum Reverse Leakage Current at Rated @ $T_J=25^{\circ}C$ Dc Blocking Voltage @ $T_J=100^{\circ}C$	I_R	10 500							uA
Typical Thermal Resistance per leg (Note 2) (Note 3)	$R_{\theta JA}$ $R_{\theta JC}$	8.6 3.1							$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150							$^{\circ}C$

NOTES:

1. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.
2. Units Mounted in free air, no heatsink, P.C.B at 0.375"(9.5mm) lead length with 0.5 x 0.5"(12 x 12mm) copper pads.
3. Units Mounted on a 2.6 x 1.4" x 0.06" thick (6.5 x 3.5 x 0.15cm) AL plate.

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RATING AND CHARACTERISTIC CURVES

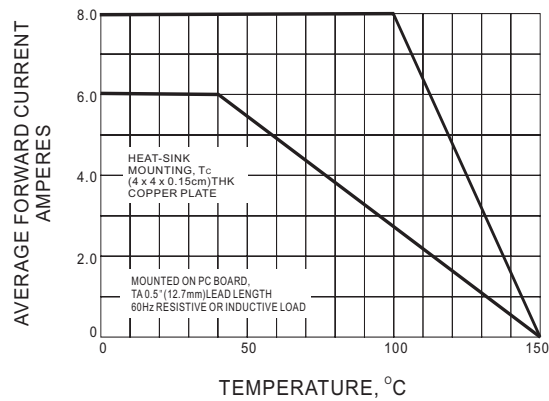


Fig. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

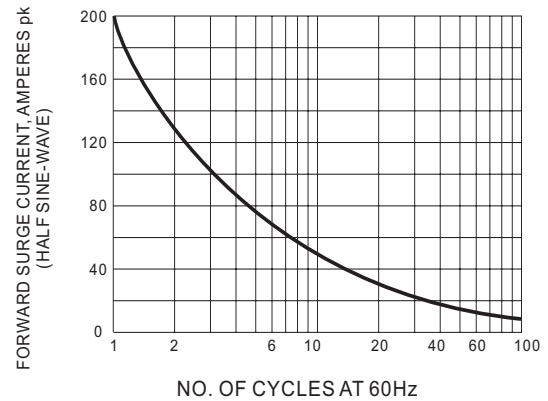


Fig. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

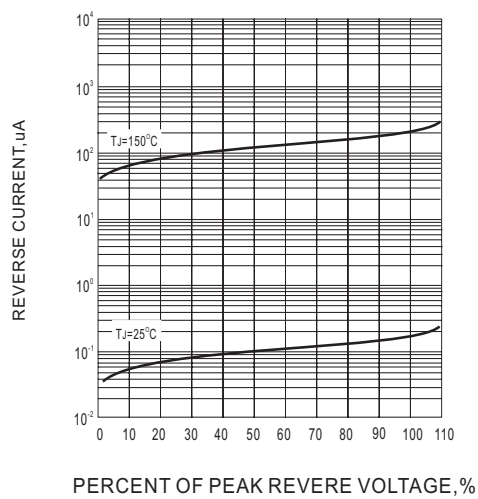


Fig.3 - TYPICAL REVERSE CHARACTERISTICS

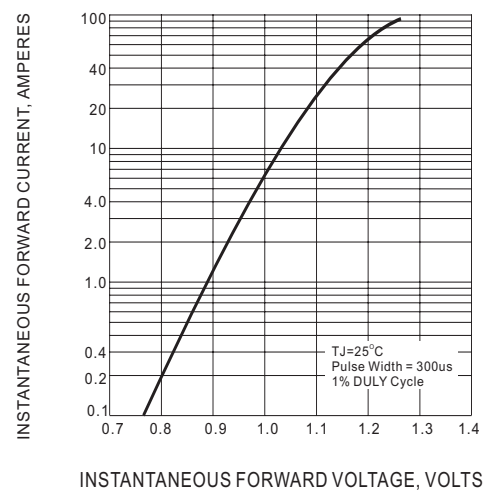


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT