



GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER



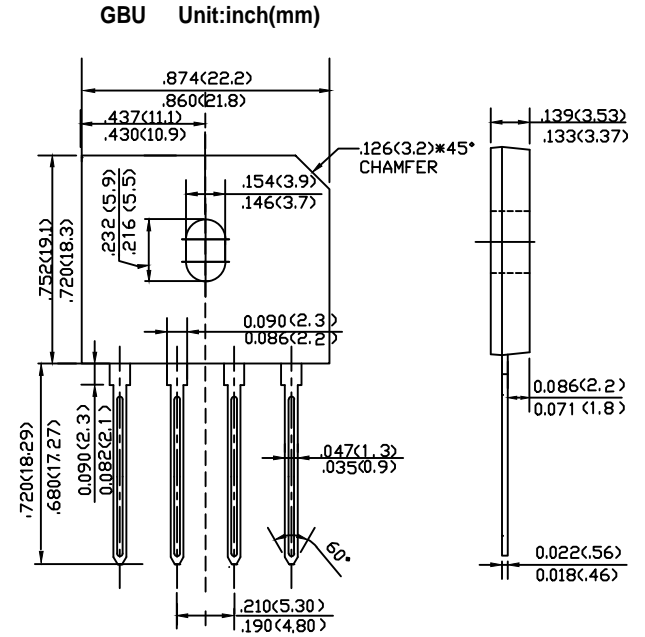
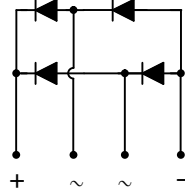
Reverse Voltage - 50 to 1000 Volts Forward Current - 8.0 Amperes

FEATURES

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

MECHANICAL DATA

- Case: GBU, molded plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For ROHS / Lead Free Version



Maximum Rating 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%.

TYPE NUMBER	SYMBOL	GBU 8A	GBU 8B	GBU 8D	GBU 8G	GBU 8J	GBU 8K	GBU 8M	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}								
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ $T_c=90^\circ C$	$I_{F(AV)}$	8.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200							A
Forward Voltage per element @ $I_F=4A$ @ $I_F=8A$	V_F	1.0 1.1							V
Peak Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R	5.0 500							μA
I^2t Raging for fusing ($t<8.3ms$)	I^2t	166							A^2s
Typical Junction Capacitance per leg (Note 2)	C_J	70							pF
Typical Thermal Resistance per leg (Note 3)	$R_{\theta JA}$	31							$^\circ C/W$
	$R_{\theta JL}$	7.3							
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ C$

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
 3. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

DEVICE CHARACTERISTICS

GBU8A THRU GBU8M

