



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

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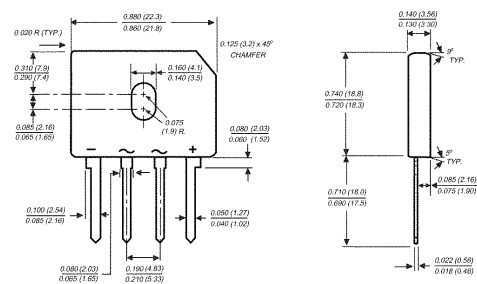
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

GBU6A THRU GBU6M

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94 V-0
- This series is UL listed under the Recognized Component Index, file number E54214
- Glass passivated chip junctions
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed:
260°C / 10 seconds at 5 lbs. (2.3kg) tension

Case Style GBU



Polarity shown on front side of case, positive lead by beveled corner

Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: Molded plastic body over passivated junctions
- Terminals: Plated leads solderable per MIL-STD-750 method 2026
- Mounting position: Any (Note 2)
- Weight: 0.15 ounce, 4.0gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOLS	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Rectified Current at $T_C = 100^\circ\text{C}$ (Note 1,2)	$I_{(AV)}$	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method) $T_J - 150^\circ\text{C}$	I_{FSM}	175							Amps
Rating for fusing (t < 8.3ms)	I^2t	127							A ² sec
Maximum Instantaneous Forward Voltage drop per leg at 6.0A	V_F	1.0							Volts
Maximum DC Reverse Current at rate DC blocking voltage per leg	I_R	$T_A = 25^\circ\text{C}$	5.0						μA
		$T_A = 125^\circ\text{C}$	500.0						
Typical Junction Capacitance per leg (Note 3)	C_J	211				94			pF
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$	7.4						$^\circ\text{C/W}$	
(Note 2)	$R_{\theta JC}$	2.2							
Operating and Storage Temperature Range	T_J, T_{STG}	(-55 TO +150)						$^\circ\text{C}$	

NOTES:

1. Units case mounted on 2.6 * 1.4 * 0.06" thick (6.5 * 3.5 * 0.15dm) ALPlate heatsink
2. Recommended mounting position is to bolt down on heatsink with silicon thermal compound for maximum heat transfer with #6 screws
3. Measured at 1.0MHz and applied reverse voltage of 4.0 volts



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RATINGS AND CHARACTERISTICS CURVES GBU6A THRU GBU6M

