GBU8A THRU GBU8M

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V Current:

8.0A



Features

Ideal for printed circuit board Glass passivated chip junction High case dielectric strength High surge overload rating

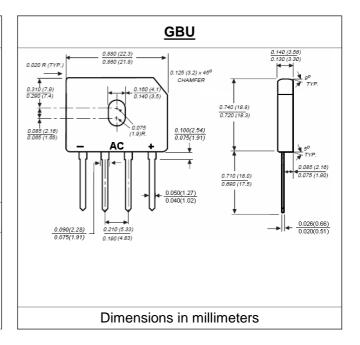
This series is UL listed under Recognized Component Index, file number E185029

Mechanical Data

Terminal: Plated leads solderable per MIL-STD 202E, method

Case: UL-94 Class V-0 recognized Flame Retardant Epoxy Polarity: Polarity symbol marked on body

Mounting position: Thru hole for #6 screw



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

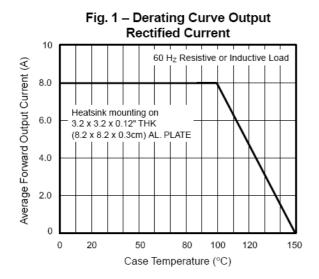
(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

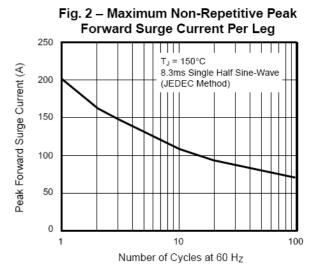
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	Symbol	GBU 8A	GBU 8B	GBU 8D	GBU 8G	GBU 8J	GBU 8K	GBU 8M	units
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at Tc = 100°C (Note 1)	If(av)	8.0							Α
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	200							Α
Maximum instantaneous forward voltage drop per leg at 8.0A	Vf	1.0						V	
Rating for fusing (t < 8.3ms)	l ² t	166						A ² Sec	
Maximum DC reverse current at $Ta = 25$ °C rated DC blocking voltage per leg $Ta = 125$ °C	Ir	5.0 500						μА	
Typical junction capacitance per leg at 4V,1MHz	Cj	211 94				pF			
Maximum thermal resistance per leg (Note3)	Rth(ja) Rth(jc)	21 2.2						°C/W	
Operating junction and storage temperature range	Tj, Tstg	-55 to +150							°C

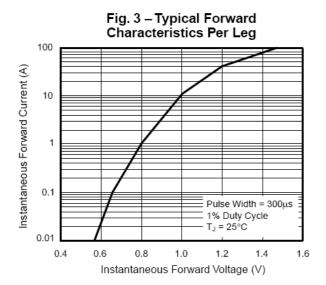
Note:

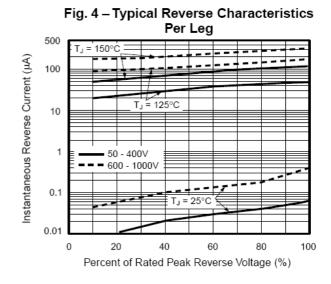
- 1. Unit case mounted on 3.2 x 3.2 x 0.12" thick (8.2 x8.2 x 0.3cm) Al. Plate heatsink
- 2. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw
- 3. Units mounted in free air, no heatsink on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads, 0.375" (9.5mm) lead length

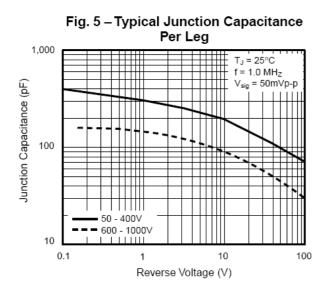
RATINGS AND CHARACTERISTIC CURVES GBU8A THRU GB8M

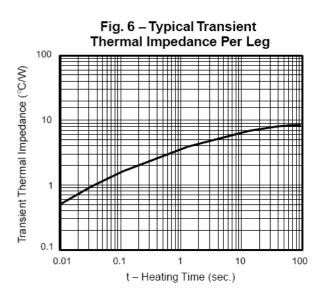












Rev.A3 www.gulfsemi.com