



Features Ideal for printed circuit board Glass passivated chip junction High case dielectric strength High surge current capability This series is UL listed under Recognized Component Index, file number E185029

GBU 0.880 (22.3) <u>0.140 (3.5</u>8 0.130 (3.30 0.020 R (TYP 125 (3.2) x 45⁰ CHAMFER 0.310 (7.9) 0.290 (7.4) 0.160 (4. 0.740 (18.8) 0.720 (18.3) 0.085 (2.18) 0.100(2.54) 0.075(1.91) AC , TYP 0.085 (2.16) 0.075 (1.90) 0.710 (18.0) 0.090 (17.5) 0.026(0.66) 0.210 (5.33 0.090(2.28) **Dimensions in millimeters**

Mechanical Data

Terminal: Plated leads solderable per MIL-STD 202E, method 208C Case: UL-94 Class V-0 recognized Flame Retardant Epoxy Polarity: Polarity symbol marked on body

Mounting position: Thru hole for #6 screw

MAXIMUM RA (single-phase, half -wave, 6	ATINGS AND 60HZ, resistive or i for capacitive loa	nductive l	oad rat	ing at 2	5°C, ur			stated,		
		Symbol	GB U4A	GBU 4B	GBU 4D	GBU 4G	GBU 4J	GBU 4K	GBU 4M	un
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
5	c = 100℃ (Note 1) a = 40℃ (Note 2)	lf(av)	lf(av) 4.0						I	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		lfsm	150							A
Maximum instantaneous forward voltage drop per leg at 4.0A		Vf	1.0							V
Rating for fusing (t < 8.3ms)		l ² t	93						A ² S	
Maximum DC reverse current at rated DC blocking voltage per leg	Ta = 25℃ Ta = 125℃	lr	5.0 500							μ
Typical junction capacitance per leg	(Note3)	Cj	100 45						pl	
Maximum thermal resistance per leg	Rth(ja) Rth(jc)	22.0 4.2							°C/	
Operating junction and storage temperature range		Tj, Tstg	-55 to +150							°C

Note:

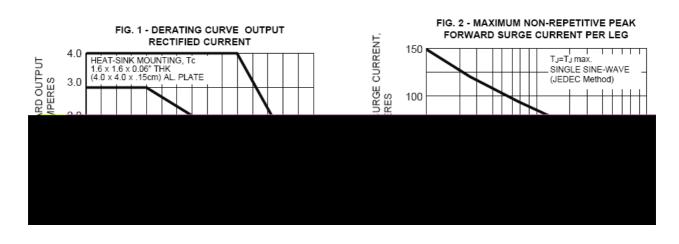
1. Unit case mounted on 1.6 x 1.6 x 0.06" thick (4.0 x4.0 x 0.15cm) Al. Plate heatsink

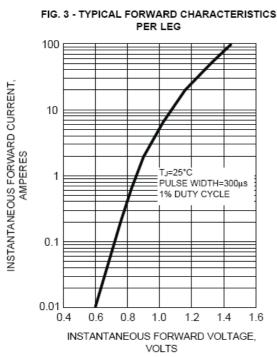
2. Units mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads, 0.375" (9.5mm) lead length

3. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts

4. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

RATINGS AND CHARACTERISTIC CURVES GBU4A THRU GBU4M





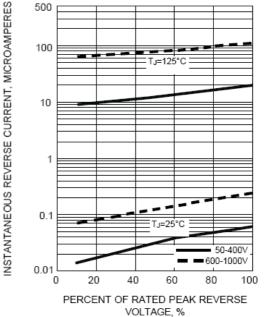


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

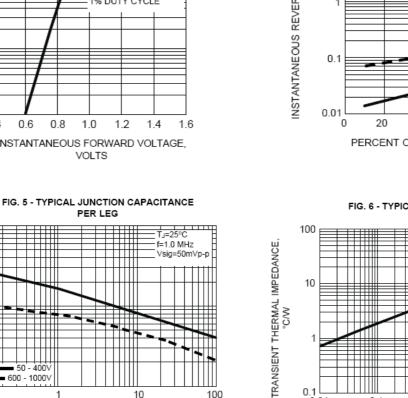
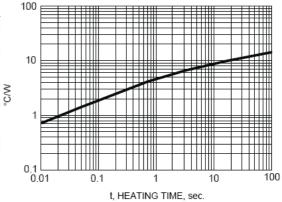
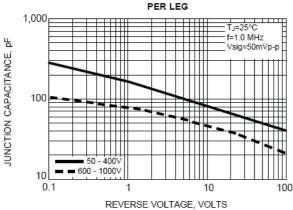


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE





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