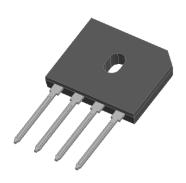
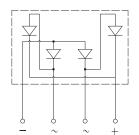






Low VF Bridge Rectifiers





Features

- UL recognition, file #E230084
- based on silicon planar process
- Ideal for printed circuit boards
- High surge current capability
- Low VF
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

• Package: GBU

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: As marked on body

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBUU2508	
Device marking code				GBUU2508	
Maximum Repetitive Peak Reverse Voltage		VRRM	V	800	
Maximum RMS Voltage		VRMS	٧	560	
Maximum DC blocking Voltage		VDC	٧	800	
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =110°C	lo	A	25.0	
	Without heatsink Ta =25℃			4.0	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		IFSM	Α	360	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				700	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A ² S	538	
Storage temperature		Tstg	°	-55 ~ + 150	
Junction temperature		Tj	°C	-55 ~ + 150	
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5	
Mounting torque @Recommend torque: 5kg·cm		Tor	kg·cm	8	

GBUU2508

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

				1			
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Тур	Max	
Instantaneous forward voltage drop per diode	VF	V	IFM=12.5A	0.80	0.86	0.92	
DC reverse current at rated DC blocking voltage per diode	lR	μА	T _j =25°C	-	0.005	5	
			T _j =125°C	-	-	50	
Junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	80	164	330	

■Thermal Characteristics $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

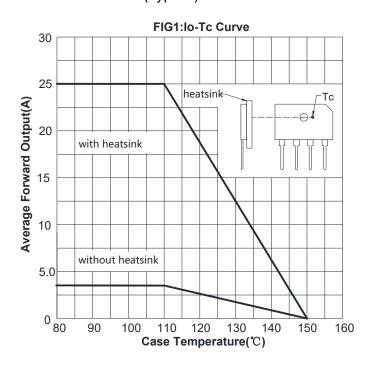
PARAMETER		SYMBOL	UNIT	GBUU2508
	Between junction and ambient, Without heatsink	RθJ-A	°C/W	25.0
Typical Thermal Resistance	Between junction and lead, With heatsink	R _θ J-L		4.0
	Between junction and case, With heatsink	RøJ-C		1.4

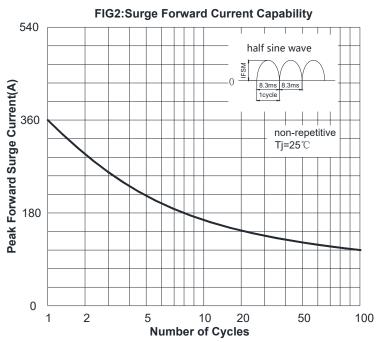
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBUU2508	B1	Approximate 3.96	20	1000	2000	TUBE

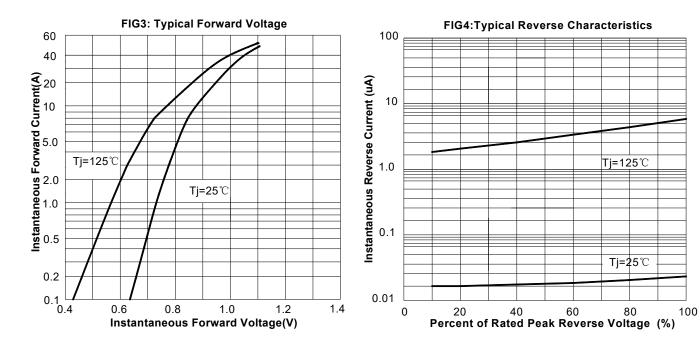
■ Characteristics (Typical)



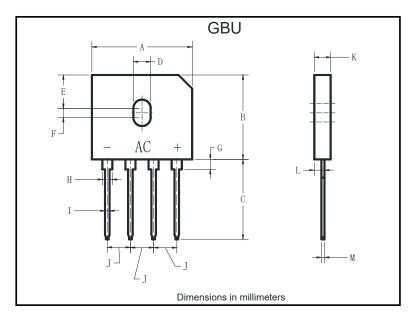








■ Outline Dimensions



GBU						
Dim	Min	Max				
Α	21.80	22.30				
В	18.30	18.80				
С	17.50	18.00				
D	3.50	4.10				
Е	7.40	7.90				
F	1.65	2.16				
G	1.91	2.54				
Н	2.06	2.54				
I	1.02	1.27				
J	4.83	5.33				
K	3.30	3.56				
L	2.40	2.66				
М	0.46	0.56				



GBUU2508

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