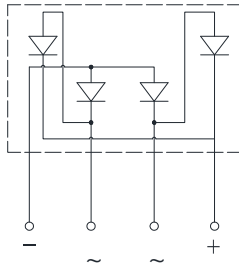
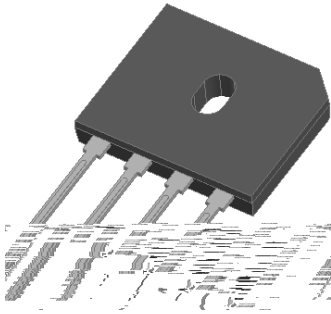


## Low VF Bridge Rectifiers



### 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 (T<sub>a</sub>=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	GBUU2508
Device marking code				GBUU2508
Maximum Repetitive Peak Reverse Voltage		VRRM	V	800
Maximum RMS Voltage		VRMS	V	560
Maximum DC blocking Voltage		VDC	V	800
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =110	IO	A	25.0
	Without heatsink Ta =25			4.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		IFSM	A	360
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				700
Current squared time @1ms t 8.3ms Tj=25 , Rating of per diode		I²t	A²S	538
Storage temperature		Tstg		-55 ~ +150
Junction temperature		Tj		-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 $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM}=12.5A$	0.80	0.86	0.92
DC reverse current at rated DC blocking voltage per diode	$I_R$	$\mu A$	$T_j=25$	-	0.005	5
			$T_j=125$	-	-	50
Junction capacitance	$C_j$	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	80	164	330

## Thermal Characteristics $T_a=25$ Unless otherwise specified

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

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

## Ordering Information (Example)

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

## Characteristics (Typical)

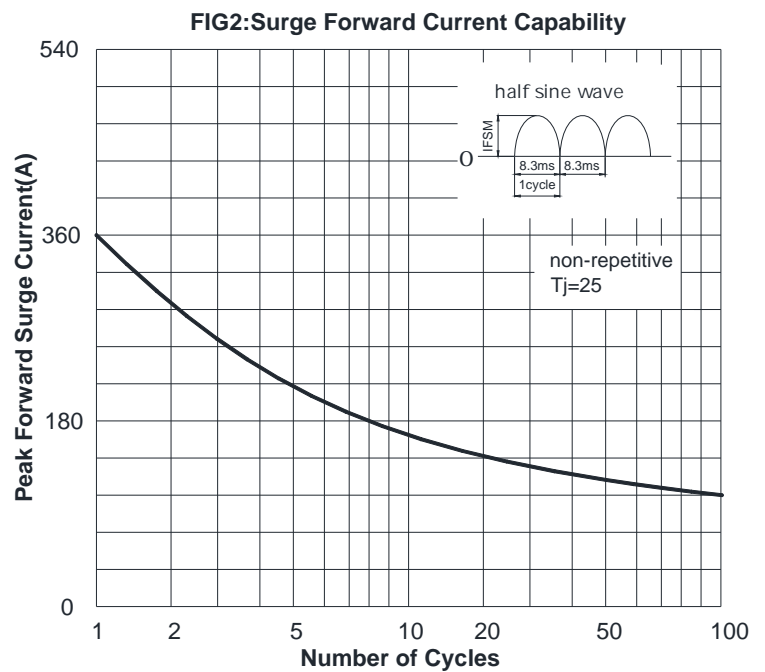
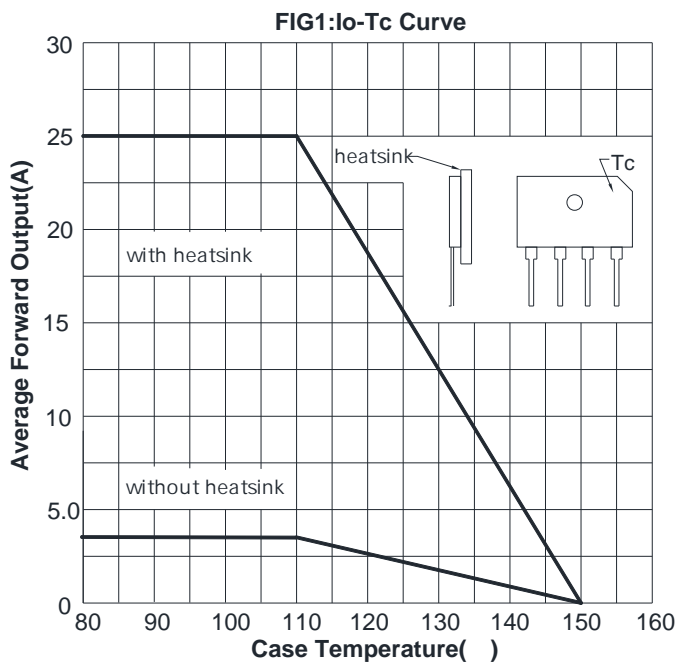
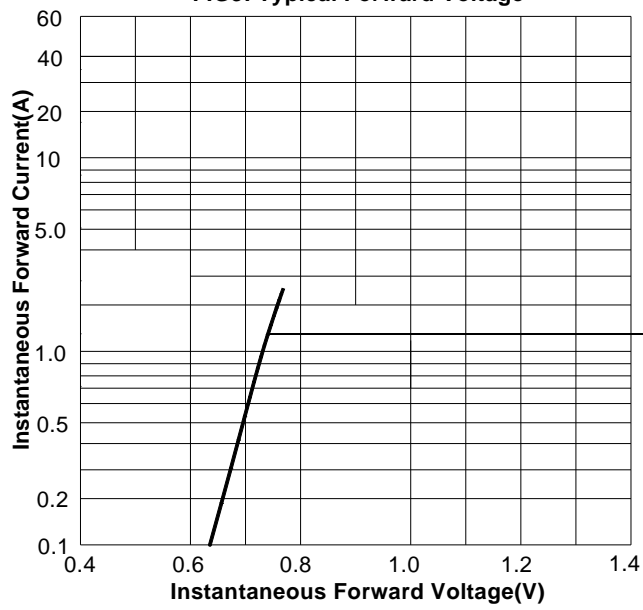




FIG3: Typical Forward Voltage



## Outline Dimensions

GBU		
Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.30	3.90
E	7.10	7.50
F	5.50	5.90
G	1.91	2.54
H	2.06	2.54
I	1.02	1.27
J	4.83	5.33
K	3.30	3.56
L	2.40	2.66
M	0.46	0.56



### Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.