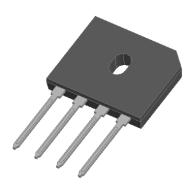
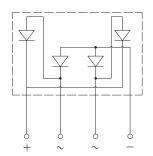






Low VF Bridge Rectifiers





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 switching power supply, home appliances, office equipment, industrial automation 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	GBUU2506
Device marking code				GBUU2506
Maximum Repetitive Peak Reverse Voltage		VRRM	V	600
Maximum RMS Voltage		VRMS	V	420
Maximum DC blocking Voltage		VDC	V	600
Average rectified output current	With heatsink Tc =110°C	- IO	А	25.0
@60Hz sine wave, R-load	Without heatsink Ta =25°C			4.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		IFSM	А	360
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				720
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A ² S	538
Storage temperature		T _{stg}	°C	-55 ~ +150
Junction temperature		Tj	°C	-55 ~ +150
Dielectric strength @ terminals to case, AC 1 minute		V _{dis}	KV	2.5
Mounting torque @recommend torque: 5kg·cm		T _{or}	kg·cm	8.0



GBUU2506

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Тур	Max
Instantaneous forward voltage drop per diode	VF	V	IFM=12.5A	0.80	0.875	0.92
DC reverse current at rated	IR	μА	T _j =25°C	-	0.01	5
DC blocking voltage per diode			T _j =125°C	-	3.5	50
Junction capacitance	Cj	pF Measured at 1MHz and Application Reverse Voltage of 4.0 V.D.0		150	185	250

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

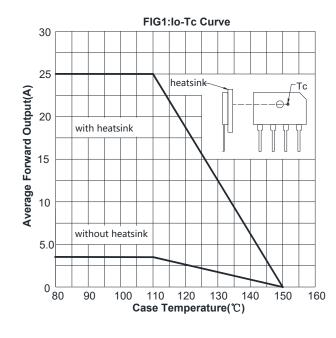
	PARAMETER	SYMBOL	UNIT	GBUU2506
Thermal Resistance	Between junction and ambient, Without heatsink	R ₀ J-A	°C/W	25.0
	Between junction and case, With heatsink	RөJ-С		0.6
	Between junction and Lead With heatsink	R ₀ J-L		4.0

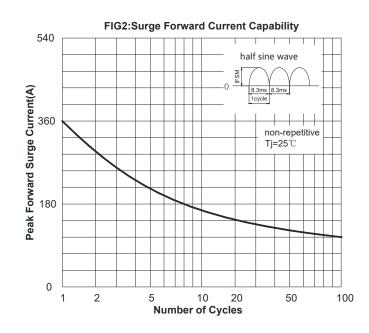
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBUU2506	B1	Approximate 3.96	20	1000	2000	TUBE

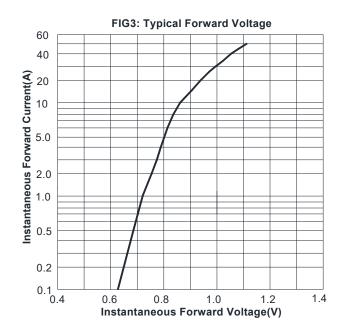
■ Characteristics(Typical)

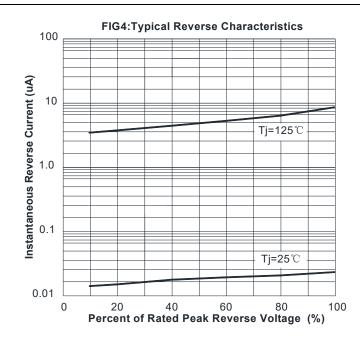




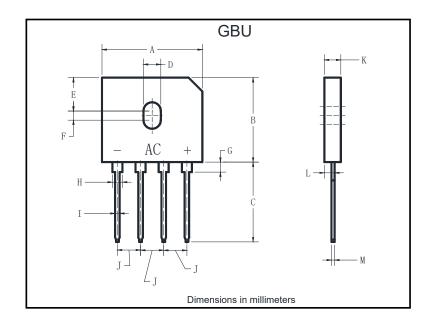


GBUU2506





■ 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				
Ι	1.02	1.27				
J	4.83	5.33				
K	3.30	3.56				
L	2.40	2.66				
М	0.46	0.56				



GBUU2506

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