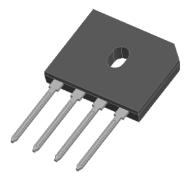
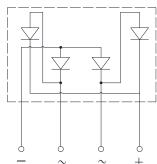






# **Low VF Bridge Rectifiers**





### **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	GBUU1506
Device marking code				GBUU1506
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 @60Hz sine wave, R-load	With heatsink Tc =110°C	- IO	А	15.0
	Without heatsink Ta =25°C			3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		IFSM	А	220
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				440
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A <sup>2</sup> S	200.9
Storage temperature		$T_{stg}$	°C	-55 ~ +150
Junction temperature		Тј	°C	-55 ~ <b>+</b> 150
Dielectric strength @ terminals to case, AC 1 minute		V <sub>dis</sub>	KV	2.5
Mounting torque @recommend torque: 5kg·cm		T <sub>or</sub>	kg∙cm	8.0



## **GBUU1506**

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Тур	Max
Instantaneous forward voltage drop per diode	VF	٧	IFM=7.5A	0.80	0.88	0.92
DC reverse current at rated DC blocking voltage per diode	IR I		T <sub>j</sub> =25℃	-	0.08	5
	יול	IR μA	T <sub>j</sub> =125°C	-	2.5	50
Junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	64	128	250

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

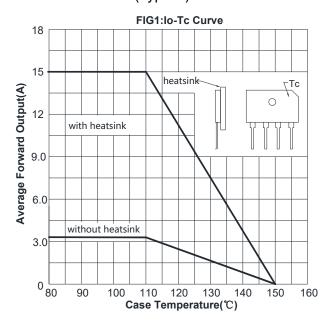
PARAMETER		SYMBOL	UNIT	GBUU1506
	Between junction and ambient, Without heatsink	R <sub>0</sub> J-A	°C/W	25.0
Thermal Resistance	Between junction and case, With heatsink	RөJ-С		1.4
	Between junction and Lead With heatsink	R <sub>0</sub> J-L		5

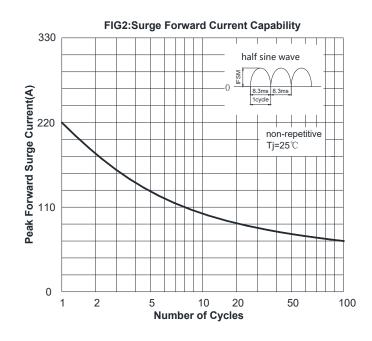
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

**■Ordering Information** (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBUU1506	B1	Approximate 3.95	20	1000	2000	TUBE

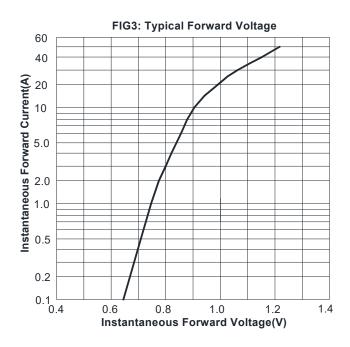
## ■ Characteristics (Typical)

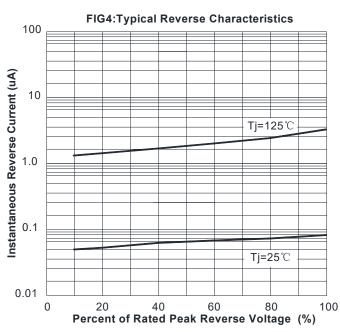




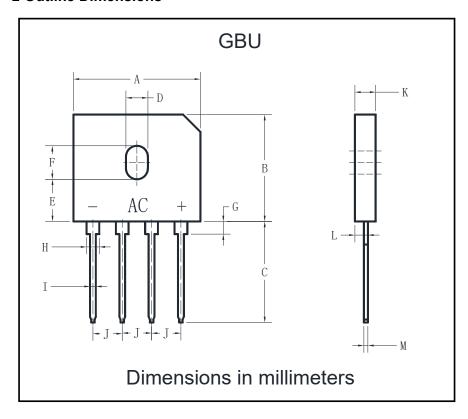








### **■** Outline Dimensions



GBU					
Dim	Min	Max			
Α	21.80	22.30			
В	18.30	18.80			
С	17.50	18.00			
D	3.30	3.90			
Е	7.10	7.50			
F	5.50	5.90			
G	1.91	2.54			
Н	2.06	2.54			
1	1.02	1.27			
J	4.83	5.33			
K	3.30	3.56			
L	2.40	2.66			
М	0.46	0.56			



### **GBUU1506**

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