

Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- 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)

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PARAMETER		SYMBOL	UNIT	GBU3016A	
Device marking code				GBU3016A	
Maximum Repetitive Peak Reverse Voltage		VRRM	V	1600	
Maximum RMS Voltage		VRMS	V	1120	
Maximum DC blocking Voltage		VDC	V	1600	
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =120°C	IO	А	30.0	
	Without heatsink Ta =25°C			3.5	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		IFSM	А	400	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				800	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A ² S	664	
Storage temperature		T _{stg}	°C	-55 ~ + 150	
Junction temperature		Тj	°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	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBU3016A
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=15A	1.05
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μΑ	T _j =25°C	5
			T _j =125°C	200
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	

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

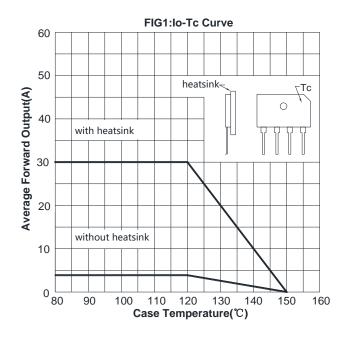
PARAMETER		SYMBOL	UNIT	GBU3016A
Thermal	Between junction and ambient, Without heatsink	RθJ-A	°C/W	22
Resistance	Between junction and case, With heatsink	R ₀ J-C		0.5

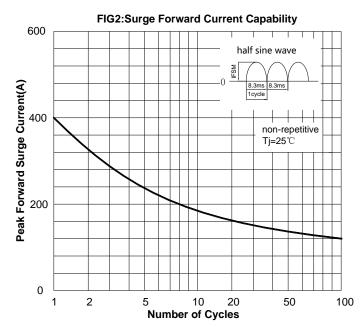
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU3016A	B1	Approximate 3.95	20	1000	2000	TUBE

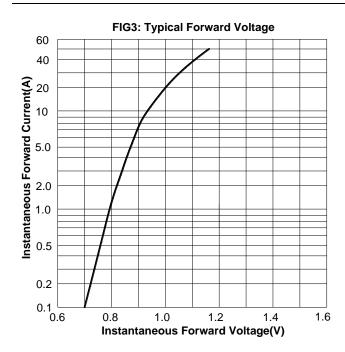
■ Characteristics (Typical)

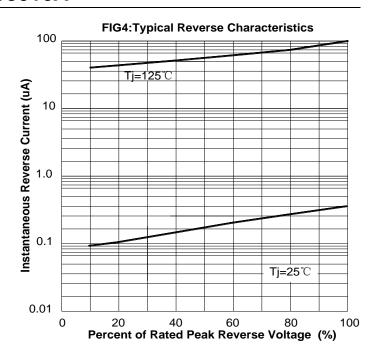




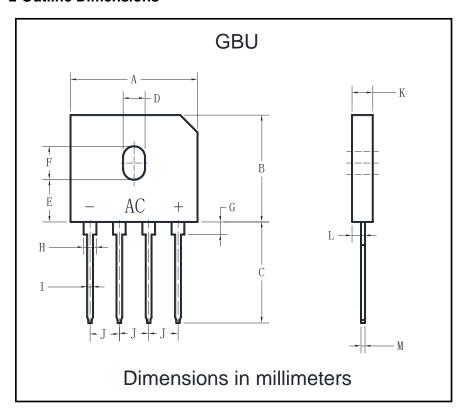


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■ Outline Dimensions



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			
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			



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