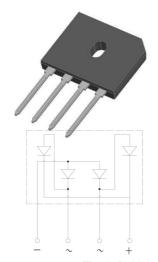


GBU8005 - GBU810

GLASS PASSIVATED BRIDGE RECTIFIERS

Reverse Voltage: 50 to 1000 Volts Forward Current:8.0Ampere





Features

- UL recognition, file #E230084
- · 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	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810
Device marking code				GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810
Repetitive peak reverse voltage		VRRM	V	50	100	200	400	600	800	1000
Average rectified output current	With heatsink Tc =110℃	- Io	А	8.0						
@60Hz sine wave, R-load	Without heatsink Ta =25℃			3.2						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C		IFSM	А	175						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		I ² t	A ² S	127						
Storage temperature		T _{stg}	°C	-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						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=4.0A		1.00					
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	5						

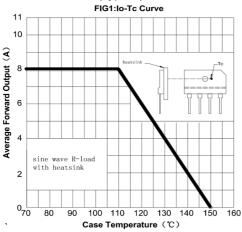


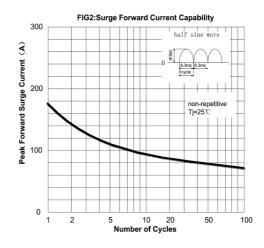
RATINGS AND CHARACTERISTIC CURVES GBU8005 THRU GBU810

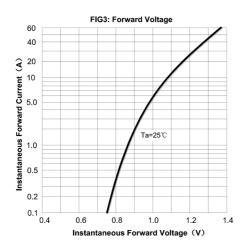
■Thermal Characteristics $(T_a=25$ $^{\circ}$ C Unless otherwise specified)

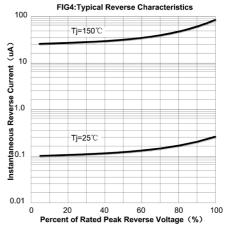
PARAMETER		SYMBOL	UNIT	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810		
Thermal	Between junction and ambient, Without heatsink	R ₀ J-A	°C/W	25.0								
Resistance Between junction and case, With heatsink		R ₀ J-C	C/VV	2.3								

■ Characteristics (Typical)





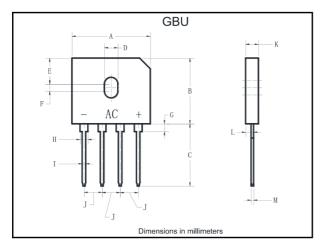






RATINGS AND CHARACTERISTIC CURVES GBU8005 THRU GBU810

■ 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					