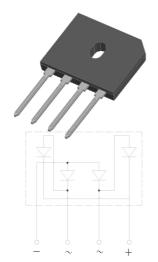


GBU25005 - GBU2510

GLASS PASSIVATED BRIDGE RECTIFIERS

Reverse Voltage: 50 to 1000 Volts Forward Current:25.0Ampere

Bridge Rectifier



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)

=::::::::::::::::::::::::::::::::::::::											
PARAMETER		SYMBOL	UNIT	GBU25005	GBU2501	GBU2502	GBU2504	GBU2506	GBU2508	GBU2510	
Device marking code				GBU25005	GBU2501	GBU2502	GBU2504	GBU2506	GBU2508	GBU2510	
Repetitive peak reverse voltage		VRRM	V	50	100	200	400	600	800	1000	
Average rectified output current	With heatsink Tc =98℃	l la	А	25.0							
@60Hz sine wave, R-load	Without heatsink Ta =25℃	lo		3.5							
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C		IFSM	Α	300							
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode		I ² t	A ² S	373							
Storage temperature		Tstg	°C	-55 ~+150							
Junction temperature		Tj	$^{\circ}$	-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	GBU25005	GBU2501	GBU2502	GBU2504	GBU2506	GBU2508	GBU2510
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=12.5A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	5						

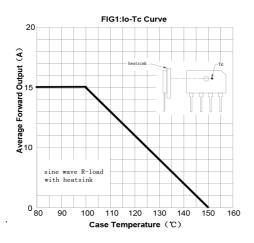


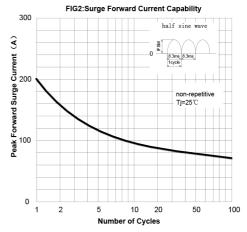
RATINGS AND CHARACTERISTIC CURVES GBU25005 THRU GBU2510

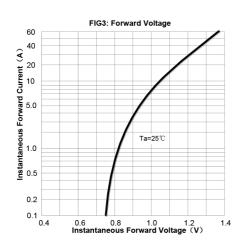
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

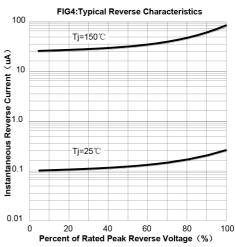
PARAMETER		SYMBOL	UNIT	GBU15005	GBU1501	GBU1502	GBU1504	GBU1506	GBU1508	GBU1510
Thermal	Between junction and ambient, Without heatsink	RθJ-A °C/W		23.0						
Resistance Between junction and case, With heatsink		RøJ-C	CIVV	1.8						

■ Characteristics (Typical)





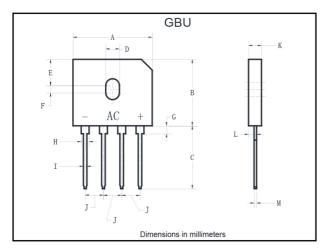






RATINGS AND CHARACTERISTIC CURVES GBU25005 THRU GBU2510

■ 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					
E	7.40	7.90					
F	1.65	2.16					
G	1.91	2.54					
Н	2.06	2.54					
ı	1.02	1.27					
J	4.83	5.33					
K	3.30	3.56					
L	2.40	2.66					
М	0.46	0.56					