GBU25005 THRU GBU2510

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 25 Amperes

Features

- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability

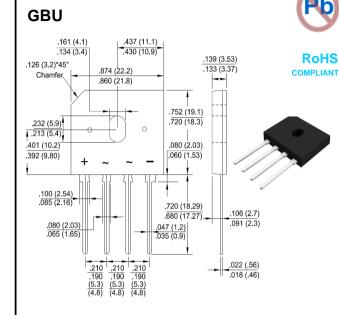
Mechanical Data

Polarity: Symbol marked on body

• Mounting position: Any

Applications

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	GBU	GBU	GBU	GBU	GBU	GBU	GBU	Unit
		25005	2501	2502	2504	2506	2508	2510	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)	Ivasa	25.0 4.2							А
Rectified Current @ Tc=100℃ (without heatsink)	I(AV)								
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	350							A
Superimposed on Rated Load (JEDEC Method)	IFSIVI	330							
I ² t Rating for Fusing (t<8.3mS)	l ² t	508							A ² s
Peak Forward Voltage per Diode at 12.5A DC	VF	1.0							V
Maximum DC Reverse Current at Rated @TJ=25℃	l _R	5.0 500							μА
DC Blocking Voltage per Diode @Tյ=125℃	IK								
Typical Junction Capacitance per Diode (Note1)	CJ	70							pF
Typical Thermal Resistance to Ambient (Note2)	Reja	10							°C/W
Typical Thermal Resistance to case (Note2)	Rejc	2							
Typical Thermal Resistance to lead (Note2)	Rejl	2.2							
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}\mathbb{C}$

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.

3. The typical data above is for reference only

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Rating and Characteristic Curves GBU25005 THRU GBU2510

