PECLERS[®]

GBJ25005 THRU GBJ2510

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

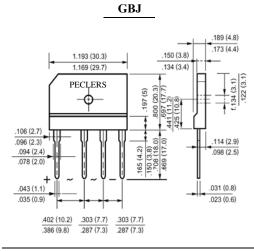
50 to 1000 VOLTS 25.0 AMPERE

FEATURES

- · Glass passivated chip junction
- Reliable low cost construction utilizing molded
 plastic technique
- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

MECHANICAL DATA

Case: Molded plastic, GBJ Epoxy: UL 94V-O rate flame retardant Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed Mounting position: Any Weight: 0.23ounce, 6.6gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	GBJ25005	GBJ2501	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I _(AV) 25.0							Amp	
with Heatsink at T _C =100°C	-(AV)	25.0							7 mp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM} 300							Amp	
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage Drop per Element	V _F	1.1							Volts
at 12.5A DC and 25 °C	· F								
Maximum Reverse Current at T _A =25°C	т	10.0							uAmp
at Rated DC Blocking Voltage T _A =125°C	I _R 500								
Typical Junction Capacitance (Note 1)	CJ	85							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	0.6							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							ĉ

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance fromn Junction to Case with Device Mounted on 300mm x 300mm x 1.6mmCu Plate Heatsink.

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RATINGS AND CHARACTERISTIC CURVES

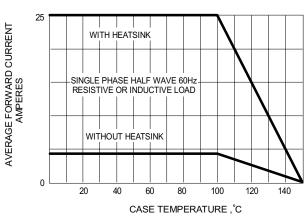


FIG.1 - FORWARD CURRENT DERATING CURVE

FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

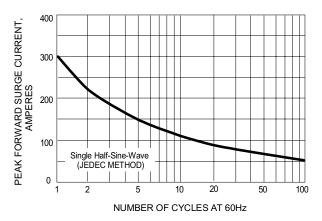


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

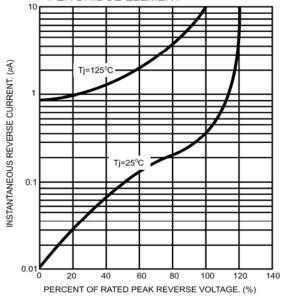


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

