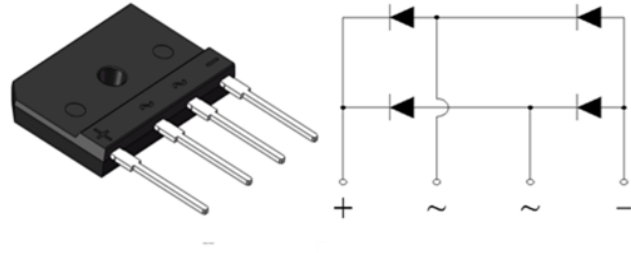


Features

- ◆ Thin Single In-Line package;
- ◆ Ideal for printed circuit boards;
- ◆ Glass Passivated chip junction;
- ◆ High Surge current capability;
- ◆ High case dielectric strength of 2500 V_{RMS};
- ◆ Low forward voltage drop
- ◆ Plastic package has Underwrites Laboratory Flammability Classification 94V-0;



GBJ

Typical Applications

- ◆ General purpose use in AC-to-DC bridge full wave rectification for Switching Power Supply, Home Appliances, Office Equipment, Industrial Automation applications.

Mechanical Data

- ◆ Case: GBJ(5S)Molded plastic body;Base P/N with suffix"E" on packing code-halogen free
- ◆ Terminals:Plated leads solderable per MIL-STD-750,Method 2026;
- ◆ High temperature soldering guaranteed: Solder Dip 260°C,10seconds;
- ◆ Polarity: As marked on body;
- ◆ Mounting Torgue: 10cm·kg (8.8 inches·lbs) max;
- ◆ Recommend Torgue:Mounting Torgue: 5.7cm·kg (5inches·lbs);

Maximum Ratings (TA = 25 °C unless otherwise noted)				
Parameter	Symbol	GL2506	GL2508	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	800	V
Maximum RMS voltage	V _{RMS}	420	560	V
Maximum DC blocking voltage	V _{DC}	600	800	V
Maximum average forward rectified output current at	I _{F(AV)}	25 ⁽¹⁾		A
		4 ⁽²⁾		
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	450		A
Rating for fusing(t<8.3ms)	I ² t	844		A ² sec
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150		°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)				
Parameter	Symbol	GL2506	GL2508	Unit
Maximum instantaneous forward voltage drop per leg at 12.5A	V _F	0.93		Volts
		0.80		
Maximum DC reverse at rated DC blocking voltage per leg	I _R	10.00		μA
		250.00		

Thermal Characteristics				
Parameter	Symbol	GL2506	GL2508	Unit
Typical thermal resistance per leg	R _{θJA} ⁽²⁾	22.0		°C /W
	R _{θJC} ⁽³⁾	0.8		

NOTE:(1)Thermal resistance from junction to case,Unit case mounted with heatsink

(2)Thermal resistance from junction to ambient,Unit case mounted on PCB without heatsink



GL2506 thru GL2508

Glass passivated Single Phase Bridge Rectifiers
 Reverse Voltage 50V~1000V Output Current 25A

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

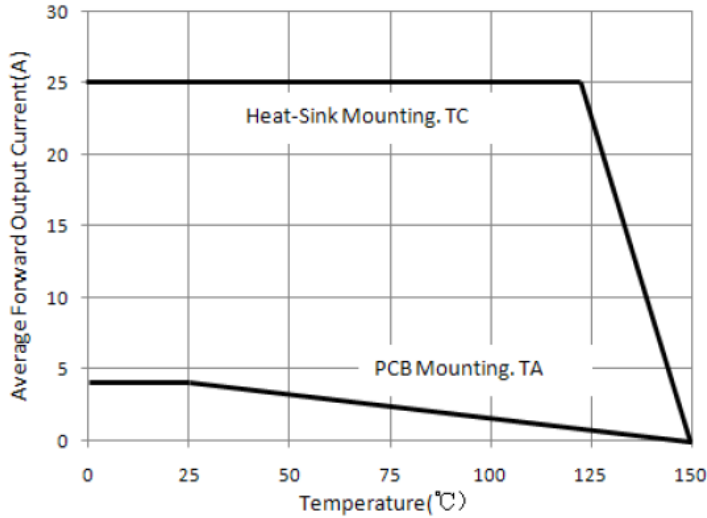


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

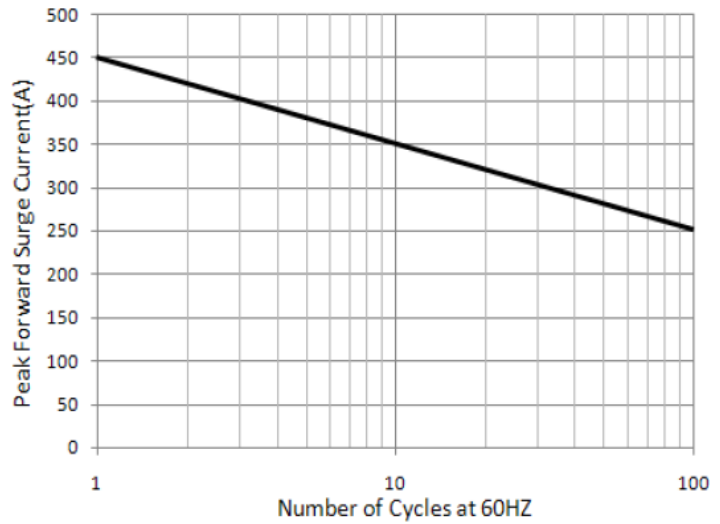


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

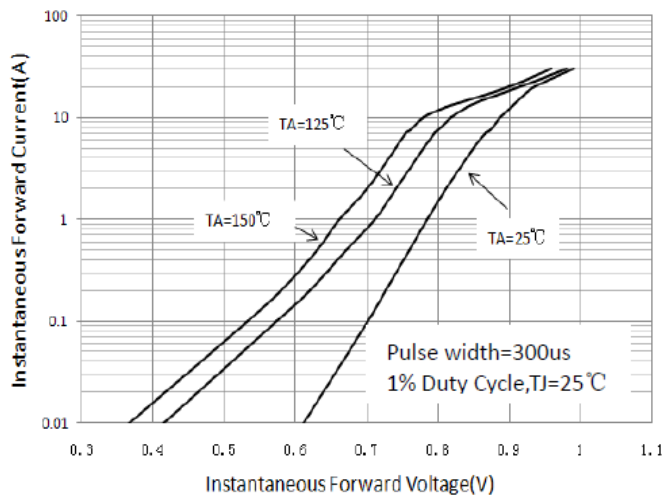
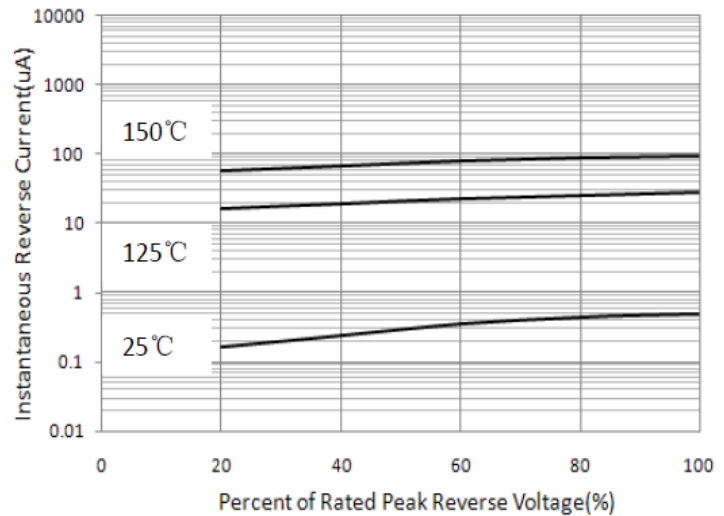


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS





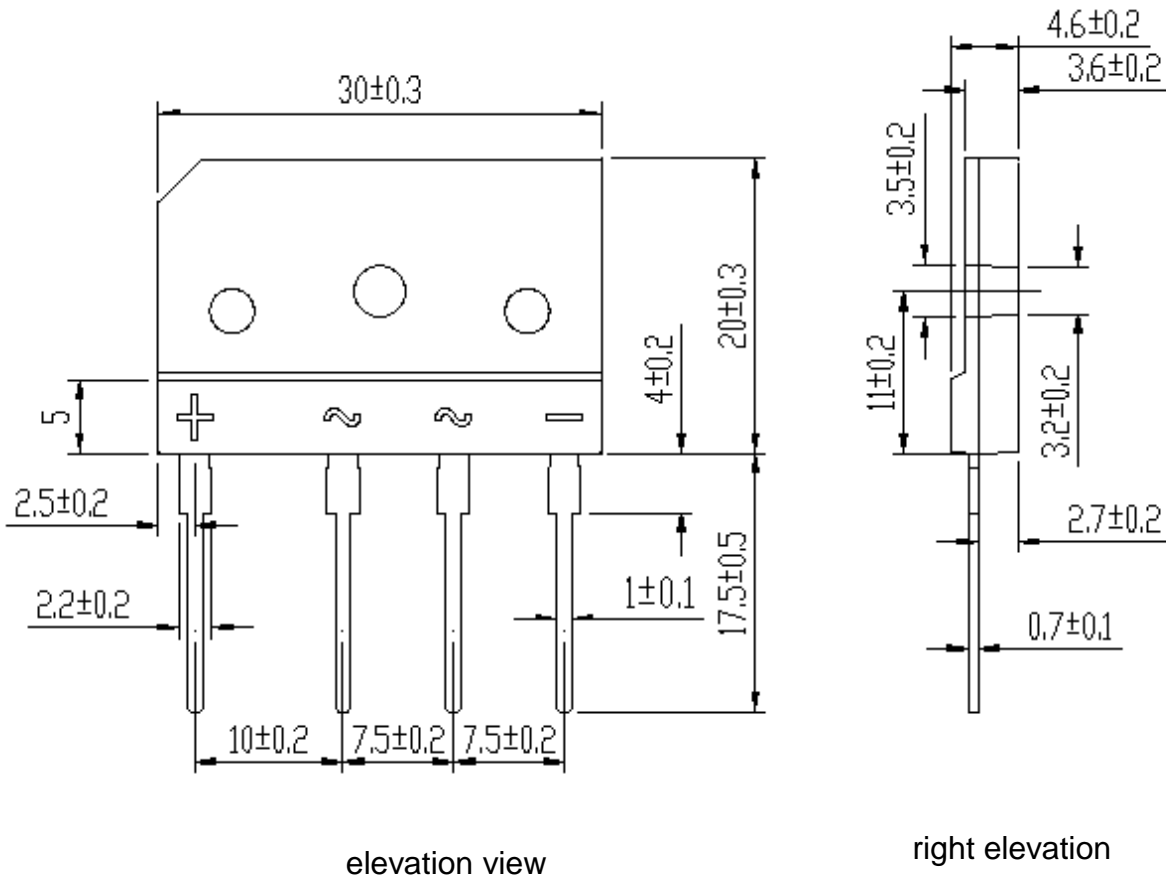
GL2506 thru GL2508

Glass passivated Single Phase Bridge Rectifiers
 Reverse Voltage 50V~1000V Output Current 25A

Package Outline Dimensions

in inches (millimeters)

First angle projection



elevation view

right elevation

Version	Revision content	Date
A	Initial version release	Mar-21



GL2506 thru GL2508

Glass passivated Single Phase Bridge Rectifiers
Reverse Voltage 50V~1000V Output Current 25A

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