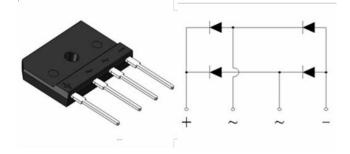


Reverse Voltage50V~1000V Output Current 25A

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 VRMS;
- 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	TC=120°C		25 ⁽¹⁾		А
	TA=25°C	I _{F(AV)}	4 ⁽²⁾		
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	450		А
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



GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)						
Parameter		Symbol	GL2506 GL2508		Unit	
Maximum instantaneous forward voltage drop per leg at 12.5A	TA=25°C	V _F	0.93			
	TA=125°C		0.80		Volts	
Maximum DC reverse at rated DC blocking voltage per leg	TA=25°C		10.00			
	TA=125°C	l _R	250.00		μΑ	

Thermal Characteristics					
Parameter	Symbol	GL2506	GL2508	Unit	
	R θJA ⁽²⁾	22.0		°C /W	
Typical thermal resistance per leg	Rejc (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



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

30 Average Forward Output Current(A) 25 Heat-Sink Mounting, TC 20 15 10 PCB Mounting. TA 0 0 25 75 100 125 150 Temperature(℃)

FIG.2-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT



FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

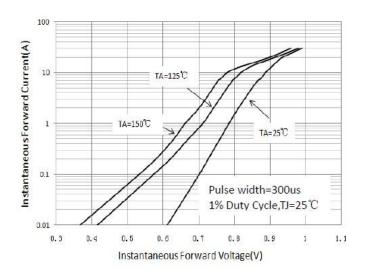
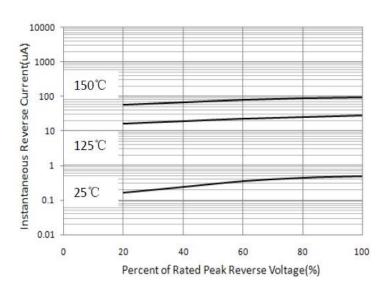


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

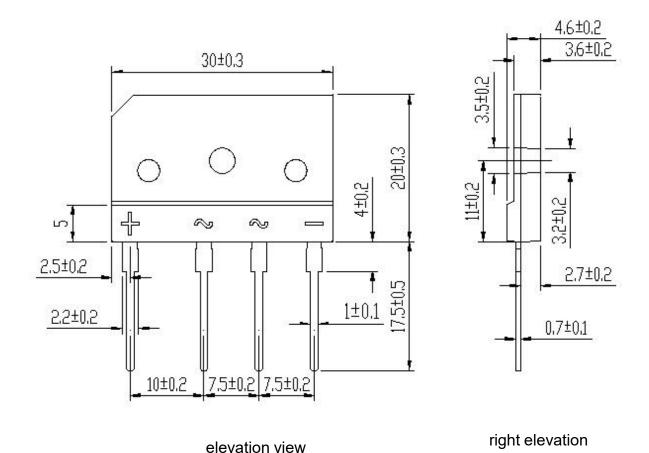




Package Outline Dimensions

in millimeters

First angle projection



Revision History

Document Version	Date of release	Discroption of changes
Rev.A	2021/3/1	Released Datasheet
Rev.B	2023/12/8	Modify document format



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