



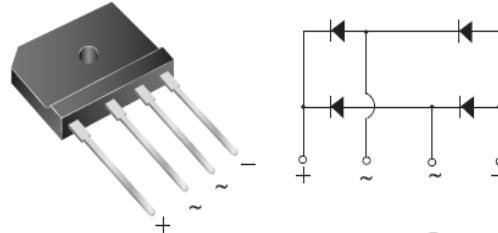
GOOD-ARK

GL2506-T2 THRU GL2508-T2

Glass Passivated Single In-Line Bridge Rectifiers
Reverse voltage-600V to 800V
Forward current-25Amperes

FEATURES

- Glass passivated chip junction
- Thin single in-line package
- Ideal for printed circuit boards
- High surge current capability
- High case dielectric strength of 2500 V_{RMS}
- Low forward voltage drop
- Solder dip 260 °C, 10 s
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC



Pb
RoHS
COMPLIANT

MECHANICAL DATA

- Case: GBJ(5S), molded epoxy body , Epoxy meets UL 94V-0 flammability rating
- Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22B-106
- Polarity: As marked on body
- Mounting Torque: 10cm-kg(8.8 inches-lbs)maximum
- Recommended Torque: 5.7cm-kg(5 inches-lbs)

PRIMARY CHARACTERISTICS	
I _{F(AV)}	25 A
V _{RRM}	600 V , 800V
I _{FSM}	450A
V _F at I _F =12.5A, T _A =125	0.80
I _R	10µA
T _J max.	150 °C

TYPICAL APPLICATIONS

General purpose use in ac-to-dc full wave rectification for switching Power Supply.Home Appliances, Office Equipment, Industrial Automation applications

MAXIMUM RATINGS (T _A = 25 °C unless otherwise noted)					
PARAMETER		SYMBOL	GL2506-T2	GL2508-T2	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	T _C =120 ⁽¹⁾	I _{F(AV)}	25		A
	T _A =25 ⁽²⁾	I _{F(AV)}	4.0		
Peak forward surge current,8.3 ms single half sine-wave superimposed on rated load(JEDEC Method)		I _{FSM}	450		A
Dielectric strength (Terminals to case, AC)		V _{ISO}	2500		Volts
Operating junction and storage temperature range		T _J , T _{STG}	- 55 to + 150		°C

Notes: (1) Unit case mounted with heatsink

(2) Unit case mounted on PCB without heatsink



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ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	GL2506-T2	GL2508-T2	UNIT
Maximum instantaneous forward voltage drop per leg at 12.5A	IF=12.5 A	VF	0.92		Volts
	TA=125		0.80		
Maximum DC reverse current at rated DC blocking voltage	TA=25	IR	10		μA
	TA=125		500		
Maximum reverse recovery time	IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A	TRR	6		us

THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	GL2506-T2	GL2508-T2	UNIT
Maximum thermal resistance	R _{θJC} ⁽¹⁾	1.5		/W
	R _{θJA} ⁽²⁾	25		

Notes: (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

ORDERING INFORMATION (Example)

PREFERRED P/N	UNIT WEIGHT (g)	BASE QUANTITY	DELIVERY MODE
GL2506-T2	7.141	20	Tube
GL2506-T2	7.141	40	Paper tray

RATINGS AND CHARACTERISTICS CURVES

(T_A = 25 °C unless otherwise noted)

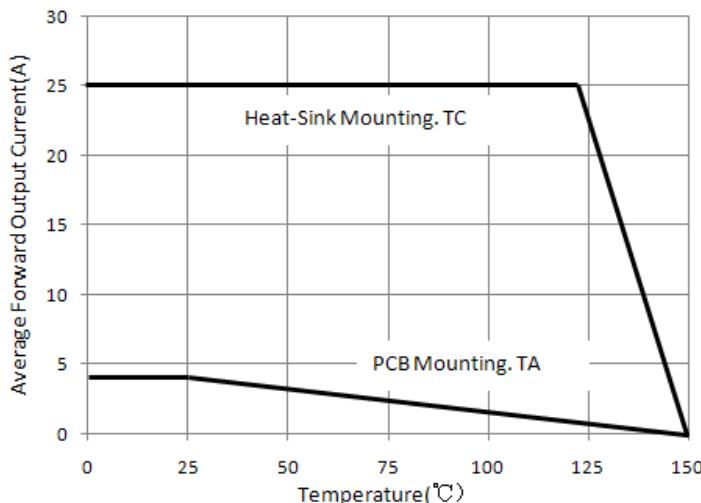


Figure 1. Derating Curve Output Rectified Current

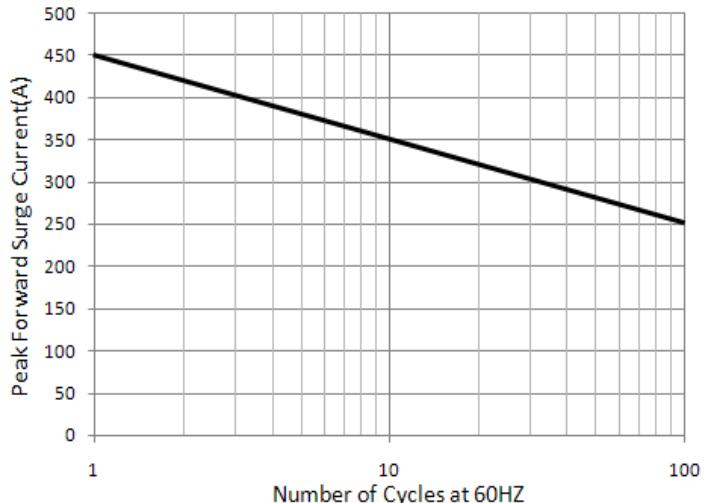


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg



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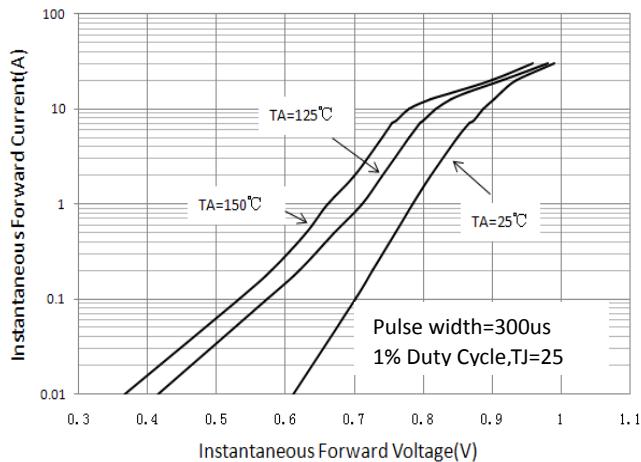


Figure 3. Typical Forward Characteristics Per Leg

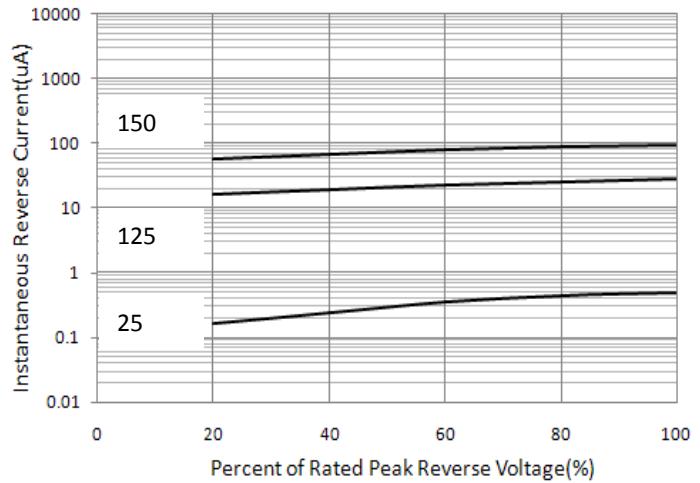


Figure 4. Typical Reverse Characteristics Per Leg

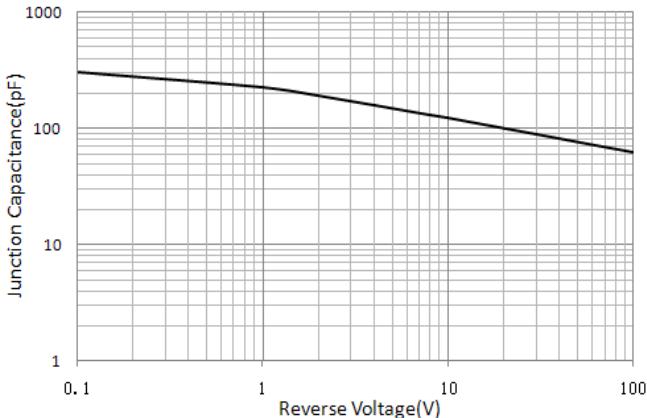


Figure 5. Typical Junction Capacitance Per Leg

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

