

RoHS Compliant Product

FEATURES

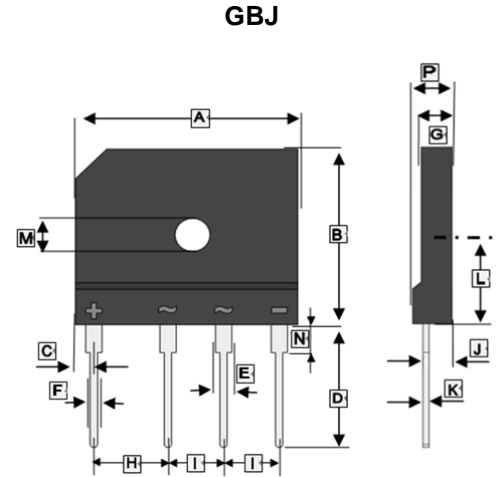
- Glass Passivated Chip Junction
- Thin Single in-line Package
- Ideal for Printed Circuit Boards
- High Surge Current Capability
- High Case Dielectric Strength
- Low Forward Voltage Drop
- Solder Dip

APPLICATIONS

- General Purpose use in AC/DC full Wave Rectification for Switching Power Supply
- Home Appliances, Office Equipment, Industrial Automation Applications

MECHANICAL DATA

- 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



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	29.7	30.3	I	7.3	7.7
B	19.7	20.3	J	3.1	3.7
C	2.3	2.7	K	0.6	0.8
D	17	18	L	10.8	11.2
E	2.0	2.4	M	φ3.1	φ3.4
F	0.9	1.1	N	3.8	4.2
G	3.4	3.8	P	4.4	4.8
H	9.8	10.2			

ORDER INFORMATION

Part Number	Type
GL1506B~GL1508B	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C Unless otherwise specified)

Parameter	Symbol	Part Number		Unit
		GL1506B	GL1508B	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	800	V
Maximum RMS Voltage	V _{RMS}	420	560	
Maximum DC Blocking Voltage	V _{DC}	600	800	
Maximum Average Forward Rectified Output Current	I _{F(AV)}	15		A
		3.7		
Peak Forward Surge Current 8.3ms Single Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	280		A
Dielectric strength (Terminals to case, AC)	V _{ISO}	2500		V
Maximum Instantaneous Forward Voltage Drop Per Leg @I _F =7.5A	V _F	T _A =25°C	0.91	V
		T _A =125°C	0.83	
Maximum DC Reverse Current @Rated DC Blocking Voltage Per Leg	I _R	T _A =25°C	5	μA
		T _A =125°C	250	
Typical Reverse Recovery Time @I _F =0.5A, I _R =1A, I _{rr} =0.25A	T _{RR}	4		μS
Junction and Storage Temperature Range	T _J , T _{STG}	-55~150		°C
Thermal Resistance Ratings				
Thermal Resistance from Junction-Ambient ²	R _{θJA}	25		°C/W
Thermal Resistance from Junction-Case ¹	R _{θJC}	1.5		°C/W

Notes:

1. Unit case mounted with heatsink.
2. Unit case mounted on PCB without heatsink.

RATINGS AND CHARACTERISTIC CURVES

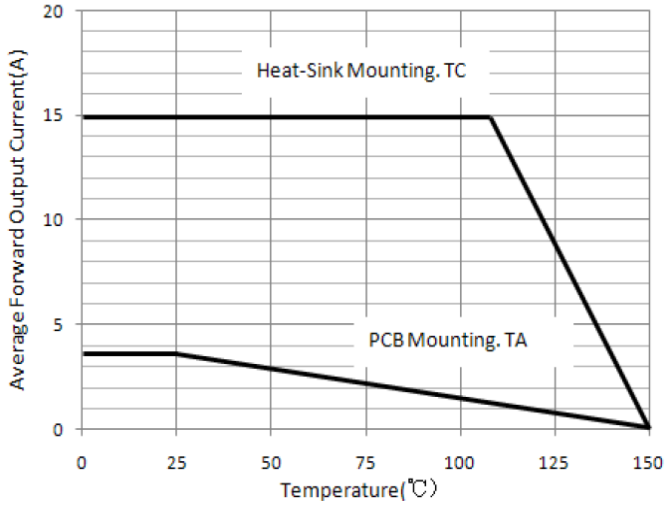


Figure 1. Derating Curve Output Rectified Current

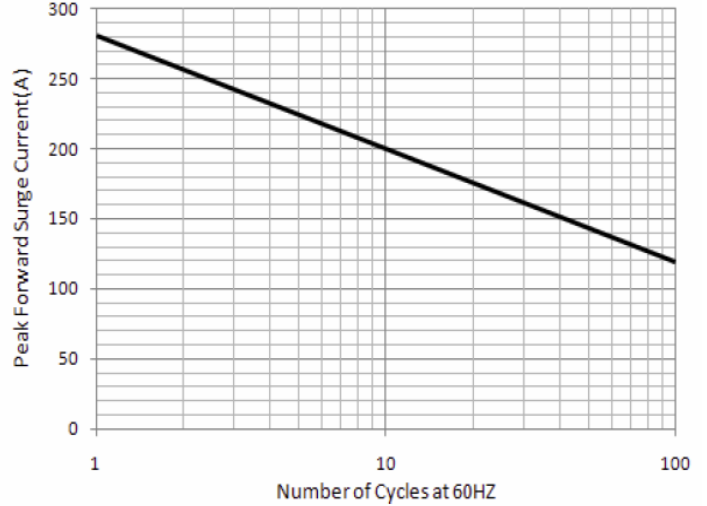


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

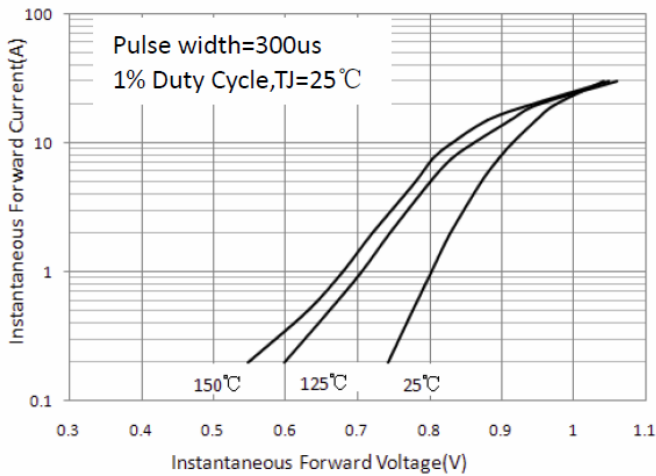


Figure 3. Typical Forward Characteristics Per Leg

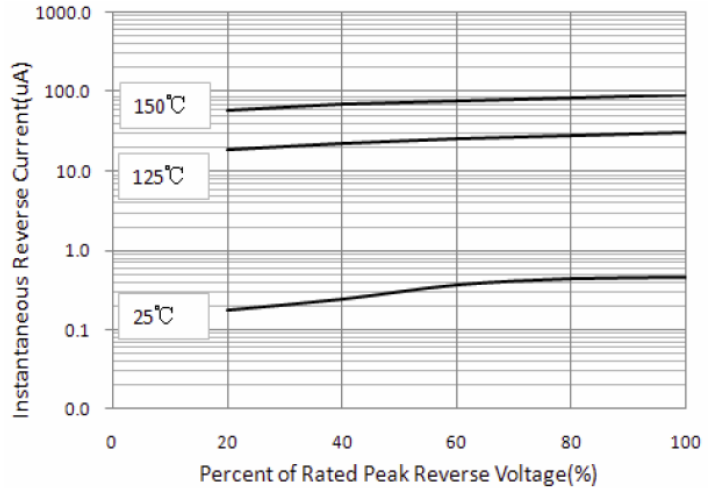


Figure 4. Typical Reverse Characteristics Per Leg

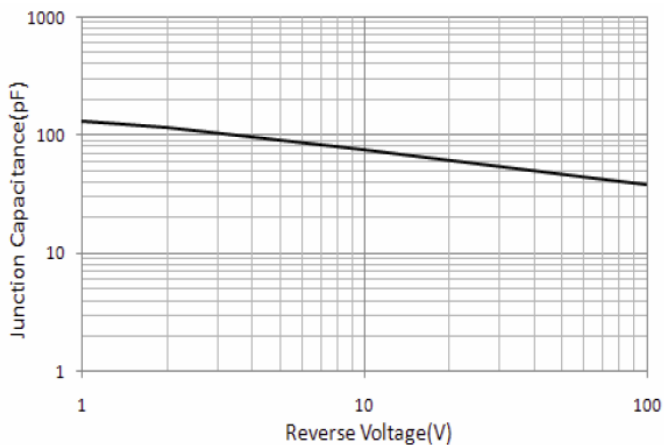


Figure 5. Typical Junction Capacitance Per Leg