



DATA SHEET

GL1500~GL1508

IN-LINE HIGH CURRENT SILICON BRIDGE RECTIFIER

VOLTAGE 50 to 800 Volts **CURRENT** 15 Amperes

GL Unit: inch (mm)

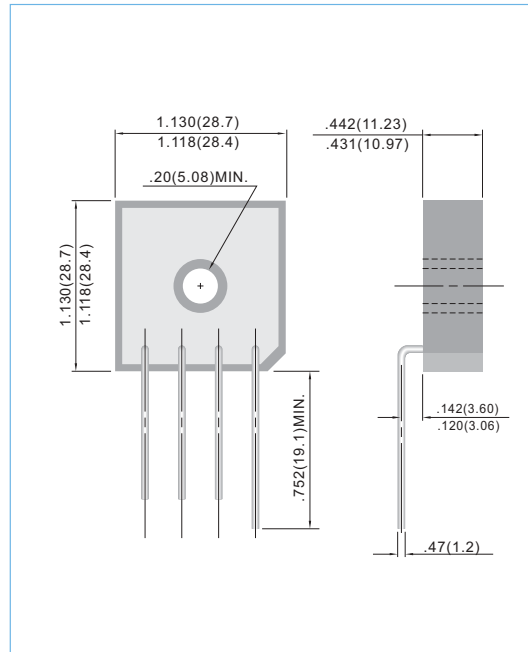
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FEATURES

- Plastic Case With Heatsink For Heat Dissipation.
- Surge Overload Ratings to 300 Amperes.
- The plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Both normal and Pb free product are available :
Normal : 80~95% Sn, 5~20% Pb
Pb free: 98.5% Sn above

MECHANICAL DATA

Case: Molded plastic with heatsink integrally mounted in birdge encapsulation.
Weight: 1.0 ounce, 30 gram
Terminals: Wire Lead ϕ 50 mils
Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, Resistive or inductive load.
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	GL1500	GL1501	GL1502	GL1504	GL1506	GL1508	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	V
DC Output Voltage, Capacitive load		30	62	124	250	380	505	V
DC Output Voltage, Resistive load		50	100	200	400	600	800	V
Maximum Average Forward Current For Resistive Load at $T_C=55^\circ C$	I_{AV}	15						A
Non-repetitive Peak Forward Surge Current at Rated Load	I_{FSM}	300						A
Maximum Forward Voltage per Bridge Element at 7.5A Specified Current	V_F	1.1						V
Maximum Reverse Leakage Current at Rated @ $T_A=25^\circ C$ Dc Blocking Voltage @ $T_A=100^\circ C$	I_R	10 1000						μA
I^2t Rating for fusing ($t < 8.35ms$)	I^2t	374						A^2sec
Typical Thermal Resistance per leg	$R_{\theta JC}$	2.0						$^\circ C/W$
Operating and Storage Temperature Range	T_J, T_A	-55 to + 150						$^\circ C$



RATING AND CHARACTERISTIC CURVES

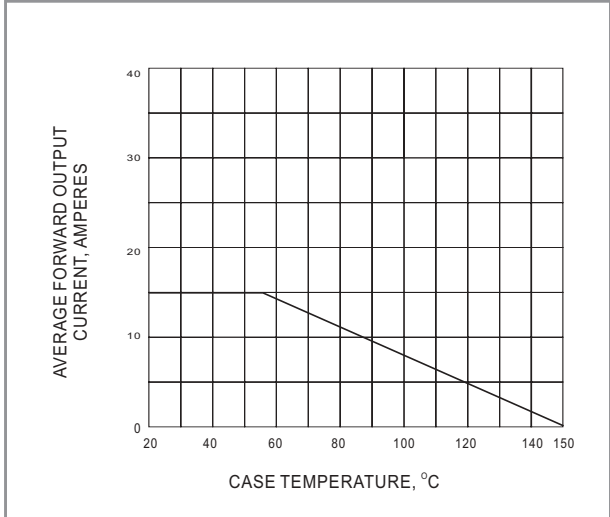


Fig.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

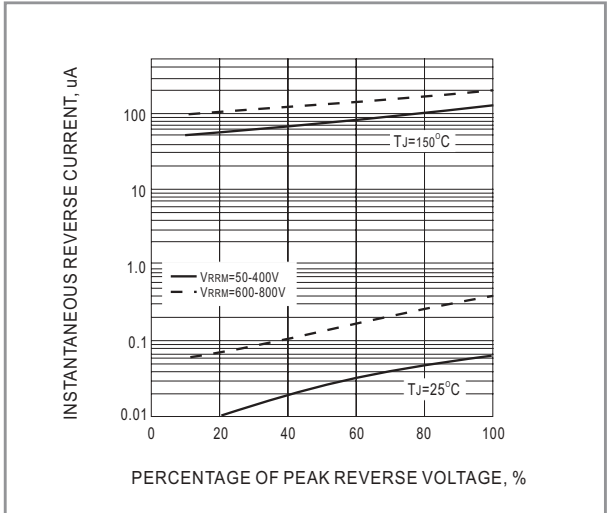


Fig.2 TYPICAL REVERSE CHARACTERISTICS

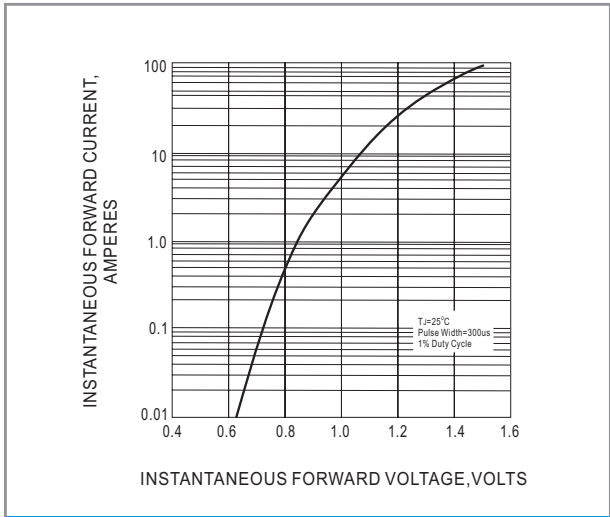


Fig.3 TYPICAL FORWARD CHARACTERISTIC