

GL1500, 2500, 3500 SERIES

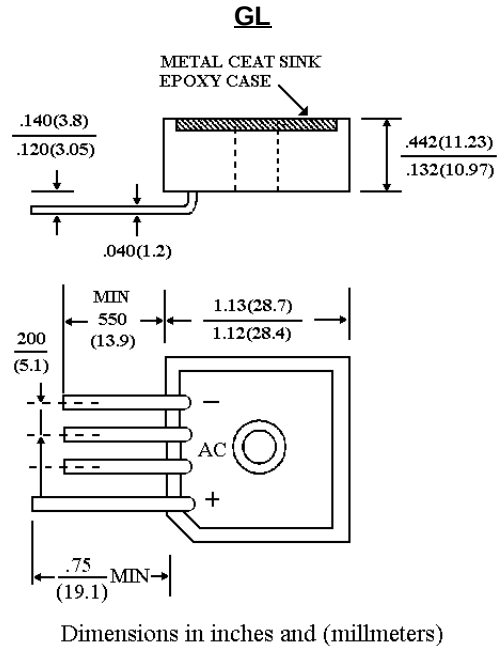
IN-LINE HIGH CURRENT SILICON BRIDGE RECTIFIERS VOLTAGE - 50 to 800 Volts CURRENT - 15 to 35 Amperes

FEATURES

- Plastic Case With Heatsink For Heat Dissipation
- Surge Overload Ratings to 400 Amperes
- The plastic package has Underwriters Laboratory Flammability Classification 94V-O

MECHANICAL DATA

Case: Molded plastic with heatsink
integrally mounted in the bridge
Encapsulation
Weight: 1 ounce, 30 grams
Mounting position: Any
Terminals: Wire Lead & 50 mils



MACXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Inductive or resistive Load at 60Hz. For capacitive load derate current by 20%.
All Ratings are for $T_C=25^\circ\text{C}$ unless otherwise specified.

		-00	-01	-02	-04	-06	-08	UNITS
Max Recurrent Peak Reverse Voltage		50	100	200	400	600	800	V
Max RMS Input Voltage		35	70	140	280	420	560	V
Max DC Blocking Voltage		50	100	200	400	600	800	V
DC Output Voltage, Resistive Load		30	62	124	250	380	505	V
DC Output Voltage, Capacitive Load		50	100	200	400	600	800	V
Max Average Forward Current for Resistive Load at $T_C=55^\circ\text{C}$	GL15	15						A
	GL25	25						A
	GL35	35						A
Non-repetitive Peak Forward Surge Current at Rated Load	GL15	300						A
	GL25	300						A
	GL35	400						A
Max Forward Voltage per Bridge Element at Specified Current	GL15 I_F 7.5A							
	GL25 12.5A	1.2						V
	GL35 17.5A							
Max Reverse Leakage Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$		10 1000						$\mu\text{g A}$
I^2t Rating for fusing ($t < 8.3\text{ms}$)		374 / 664						A^2s
Typical Thermal Resistance (Fig. 3) $R_{\theta JA}$		2.0						$^\circ\text{C/W}$
Operating Temperature Range T_J		-55 to +150						$^\circ\text{C}$
Storage Temperature Range T_A								

RATING AND CHARACTERISTIC CURVES

GL1500 THRU GL3500

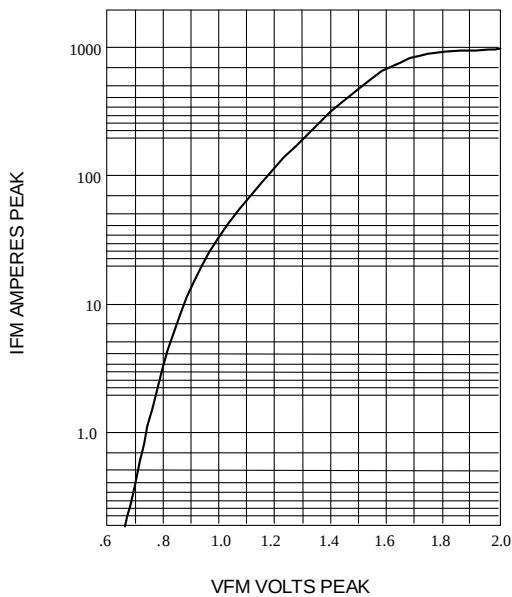


Fig. 1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS AT $T_j = 25\text{ }^{\circ}\text{C}$

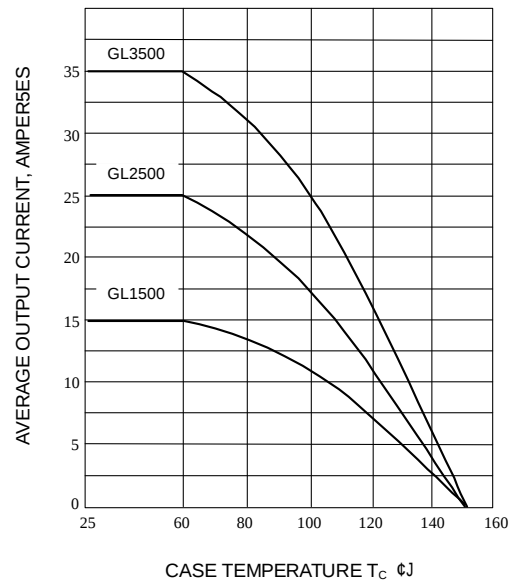


Fig. 2-OUTPUT CURRENT VS. CASE TEMPERATURE RESISTIVE OR INDUCTIVE LOAD $T_j = 175\text{ }^{\circ}\text{C}$

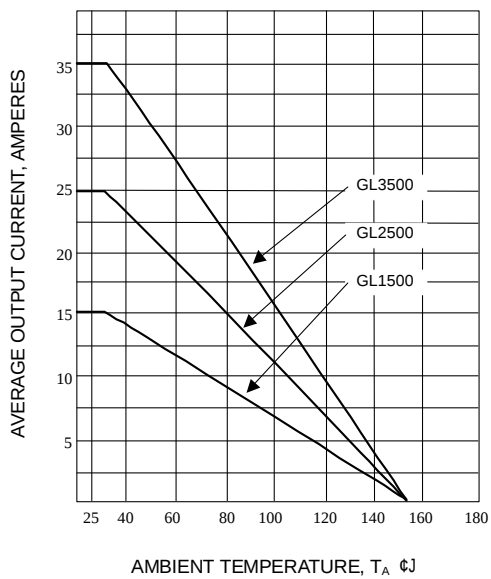


Fig. 3-OUTPUT CURRENT VS. AMBIENT TEMPERATURE RESISTIVE OR INDUCTIVE LOAD BRIDGE MOUNTED ON A 8"×8" ALUMINUM PLATE 25" THICK

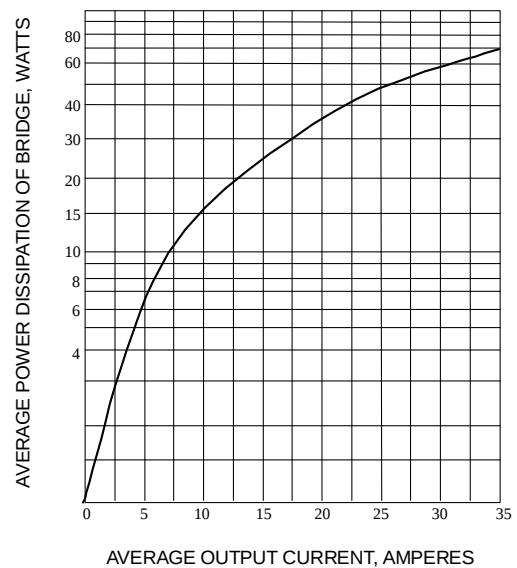


Fig. 4-POWER DISSIPATION VS. AVERAGE OUTPUT CURRENT RESISTIVE OR INDUCTIVE LOAD, $T_j = 175\text{ }^{\circ}\text{C}$