GL1500, 2500, 3500 SERIES

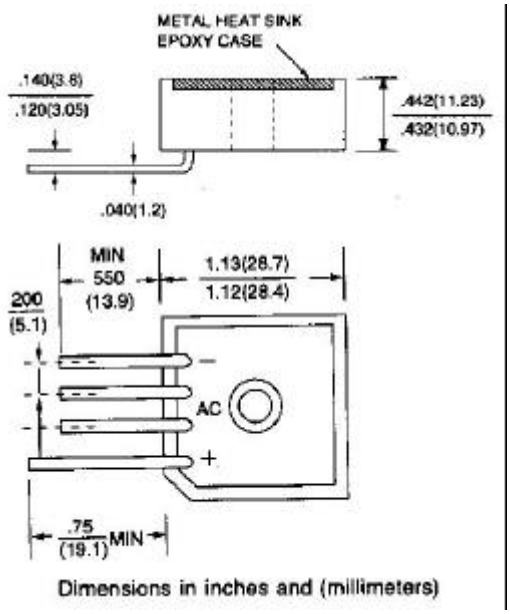
IN-LINE HIGH CURRENT SILICON BRIDGE RECTIFIERS

VOLTAGE - 50 to 800 Volts CURRENT - 15 to 35 Amperes

GL

FEATURES

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



Dimensions in inches and (millimeters)

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Inductive or resistive Load at 60Hz. For capacitive load derate current by 20%.

All Ratings are for T_C=25 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 TC=55	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	1.2						V
	GL25 12.5A							
	GL35 17.5A							
Max Reverse Leakage Current @ TA=25		10						A
at Rated DC Blocking Voltage @ TA=100		1000						
I^2t Rating for fusing (t < 8.3ms)		374 / 664						A^2s
Typical Thermal Resistance (Fig. 3) R JC		2.0						/W
Operating Temperature Range T_J		-55 to +150						
Storage Temperature Range T_A								

RATING AND CHARACTERISTIC CURVES

GL1500 THRU GL3500

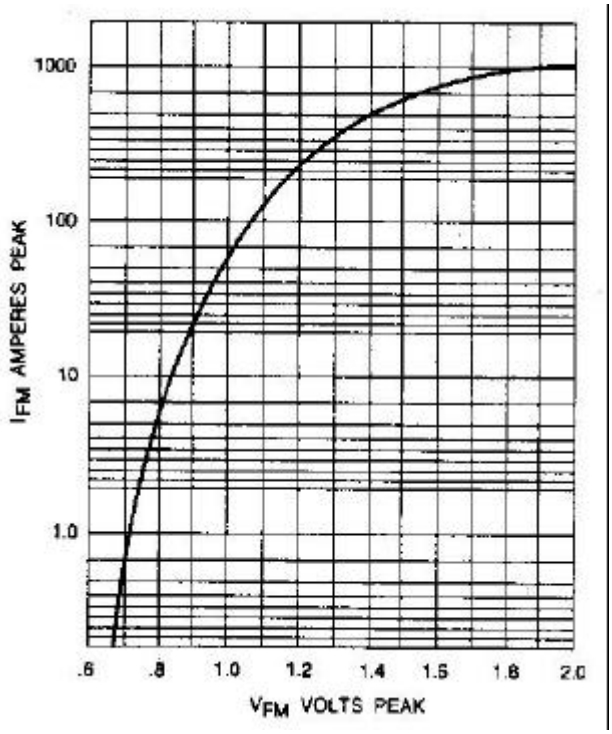


Fig. 1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS AT T_J=25

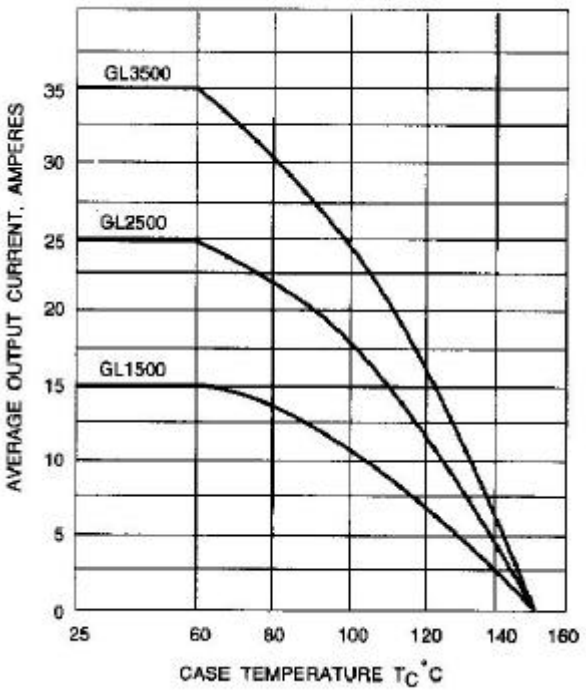


Fig. 2-OUTPUT CURRENT VS. CASE TEMPERATURE RESISTIVE OR INDUCTIVE LOAD T_J=175

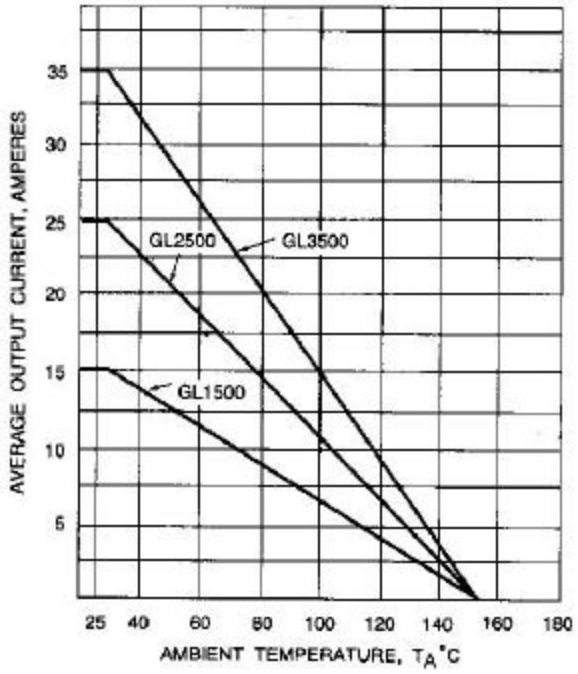


Fig. 3-OUTPUT CURRENT VS. AMBIENT TEMPERATURE RESISTIVE OR INDUCTIVE LOAD BRIDGE MOUNTED ON A8”×8” ALUMINUM PLATE 25” THICK

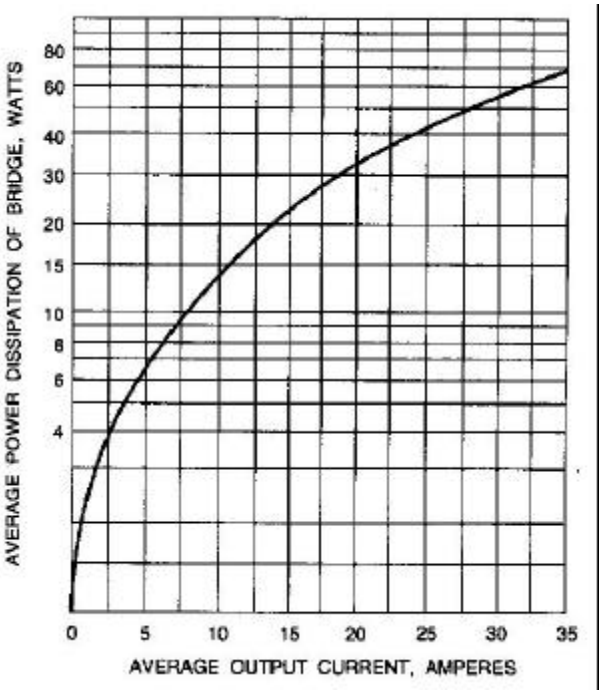


Fig. 4-POWER DISSIPATION VS. AVERAGE OUTPUT CURRENT RESISTIVE OR INDUCTIVE LOAD, T_J=175