



HITANO ENTERPRISE CORP.

6A05G THRU 6A10G

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 6.0 Amperes

FEATURES

- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge current capability

MECHANICAL DATA

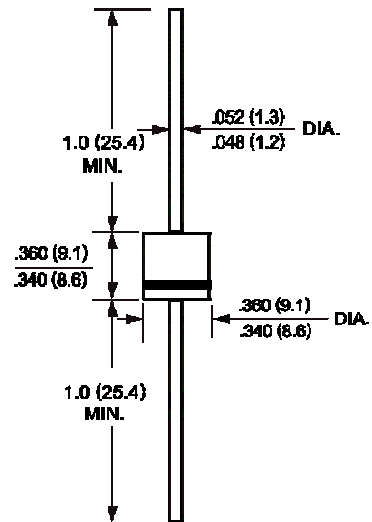
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 2.08 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



R-6



Dimensions in inches and (millimeters)

		SYMBOL	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_A = 60^{\circ}\text{C}$		I_o	6.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	400							Amps
Maximum Instantaneous Forward Voltage at 6.0A DC		V_F	1.1							Volts
Maximum DC Reverse Current	@ $T_A = 25^{\circ}\text{C}$	I_R	10							uAmps
at Rated DC Blocking Voltage	@ $T_A = 100^{\circ}\text{C}$		500							
Maximum Full Load Reverse Current Average Full Cycle .375*(9.5mm) lead length at $T_L = 75^{\circ}\text{C}$				50						
Typical Junction Capacitance (Note)		C_J	150							pF
Typical Thermal Resistance		$R_{\theta JA}$	10							$^{\circ}\text{C/W}$
Operating and Storage Temperature Range		T_J, T_{STG}	-65 to + 175							$^{\circ}\text{C}$

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts

RATING AND CHARACTERISTIC CURVES (6A05G THRU 6A10G)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

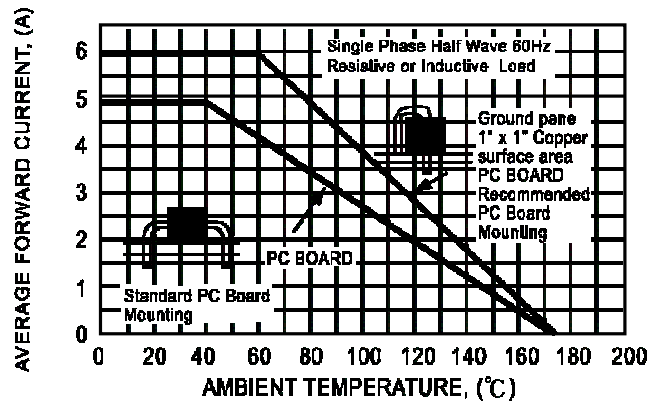


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

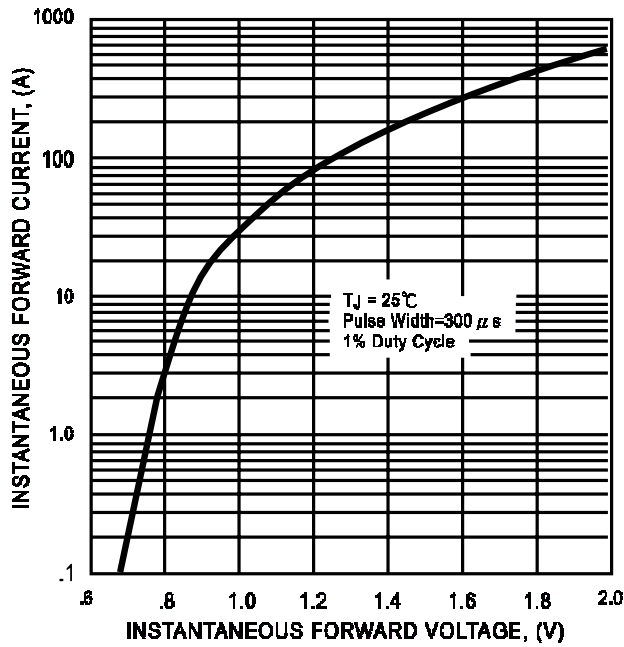


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

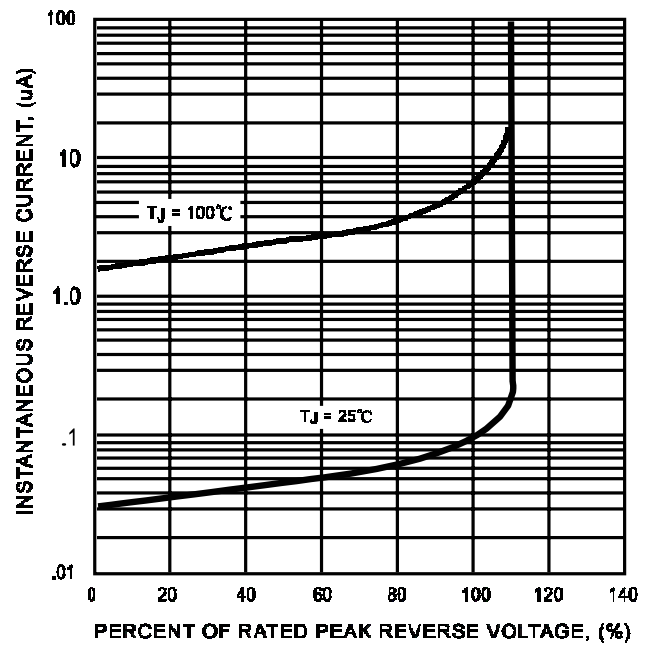


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

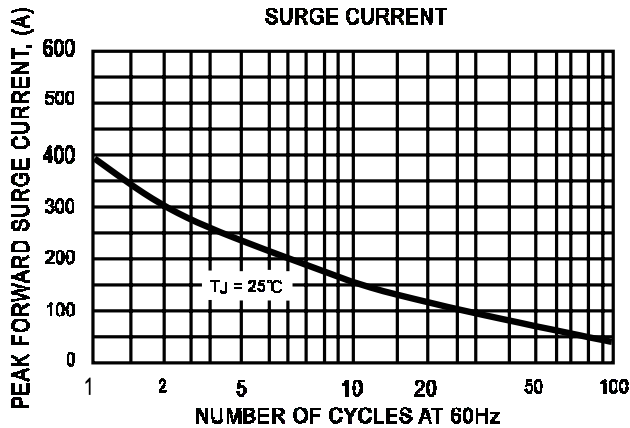


FIG. 5 - TYPICAL THERMAL RESISTANCE VS LEAD LENGTH

