6A05-6A10 SILICON RECTIFIER

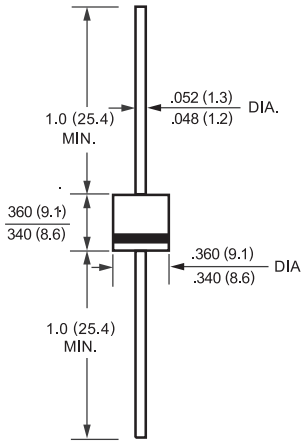
VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 6.0 Amperes

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

FEATURES

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



Dimensions in inches and (millimeters)

R-6

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%.

PARAMETER	SYMBOL	P600A 6A05	P600B 6A1	P600D 6A2	P600G 6A4	P600J 6A6	P600K 6A8	P600M 6A10	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℃	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 at @T_A = 25℃	I_R	10							uAmps
Rated DC Blocking Voltage @T_A = 100℃		500							
Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at TL = 75℃		50							uAmps
Typical Junction Capacitance (Note)	C_J	150							pF
Typical Thermal Resistance	RΘJA	10							℃/W
Operating and Storage Temperature Range	T_J,T_{STG}	-65 to +175							℃

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

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RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

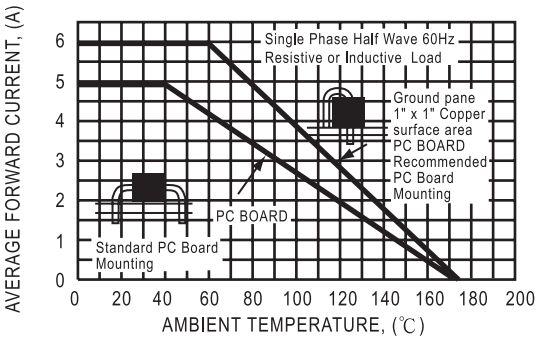


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

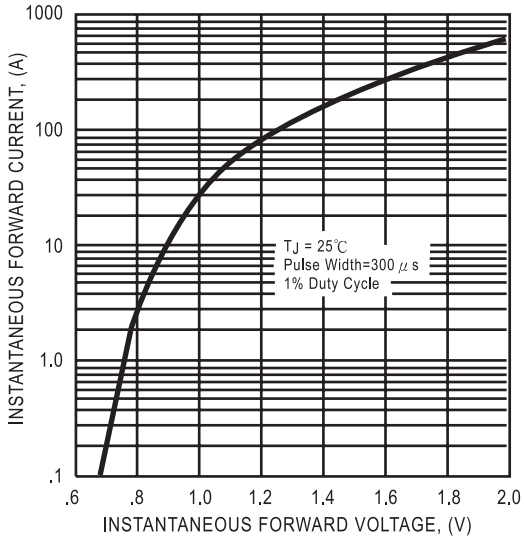


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

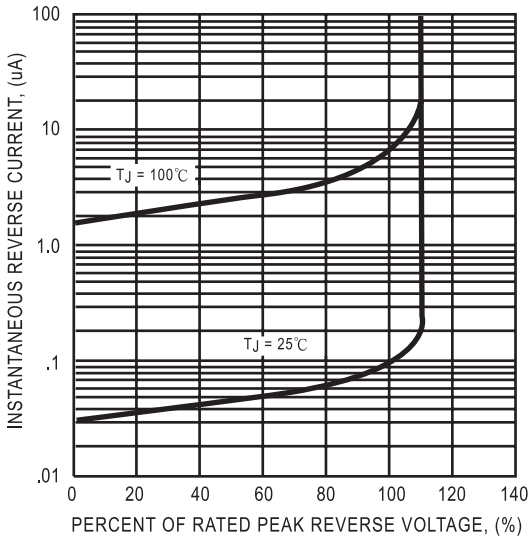


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

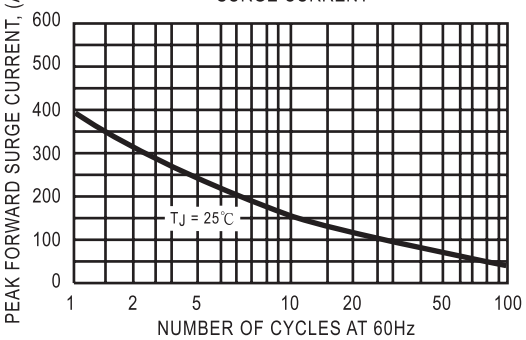
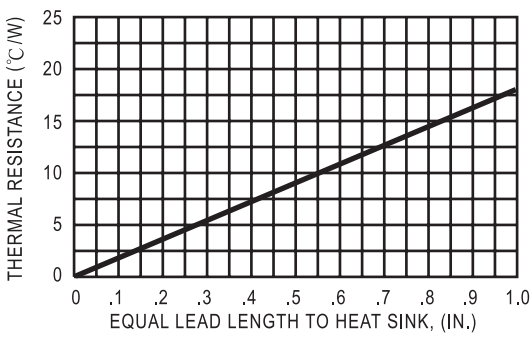


FIG. 5 - TYPICAL THERMAL RESISTANCE VS LEAD LENGTH



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