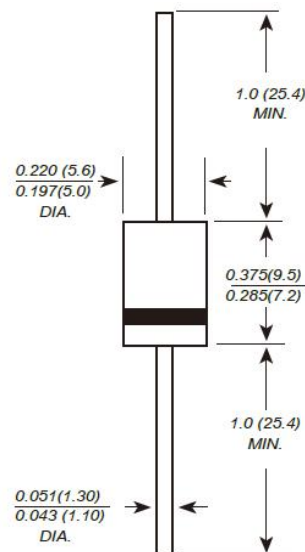


Kingtronics®**6A05 THRU 6A10****General Purpose Silicon Rectifier****FEATURES**

High current capability
 Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O utilizing
 Flame Retardant Epoxy Molding Compound.
 Exceeds environmental standards of MIL-S-19500/228
 Low leakage.

MECHANICAL DATA

Case: Molded plastic, DO-201AD
 Terminals: Plated axial leads, solderable per
 MIL-STD-202, method 208 guaranteed
 Polarity: Color band denotes cathode end
 Mounting position: Any
 Weight: 0.04ounce, 1.1gram

DO-201AD(DO-27)**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%

Dimensions in inches and (millimeters)

	SYMBOL	6A05	6A1	6A2	6A4	6A6	6A8	6A10	UNIT
Maximum Repetitive 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 .375" (9.5mm) lead length at $T_A=60^\circ\text{C}$	$I_{(AV)}$	6.0							Amp
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	200							Amp
Maximum Forward Voltage at 6.0A DC and 25°C	V_F	1.1							Volts
Maximum Reverse Current at Rated DC Blocking voltage	I_R	$T_A = 25^\circ\text{C}$							uAmp
		$T_A = 100^\circ\text{C}$							
Typical Junction Capacitance (NOTE 1)	C_J	150							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	10							°C/W
Operating Junction Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

1- Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2-Thermal Resistance from Junction to Ambient at. 375" (9.5mm)lead length, P.C. board mounted.

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

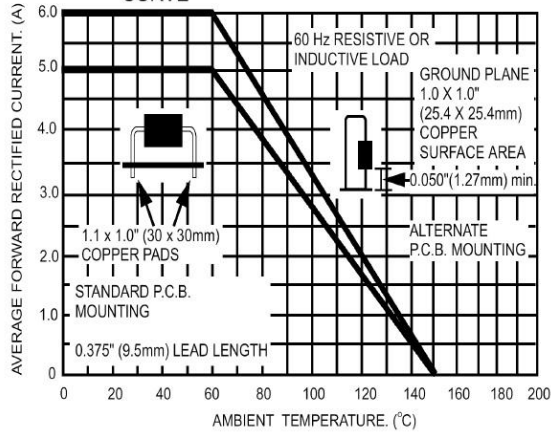


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

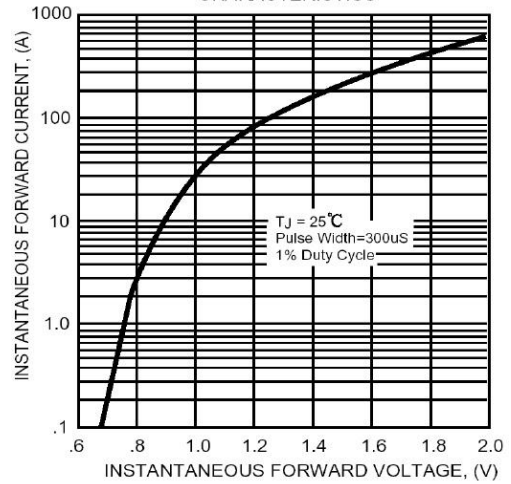


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

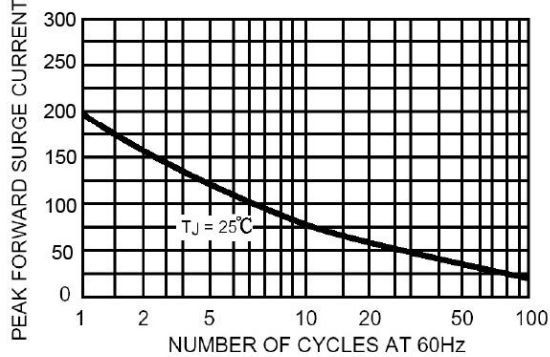


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

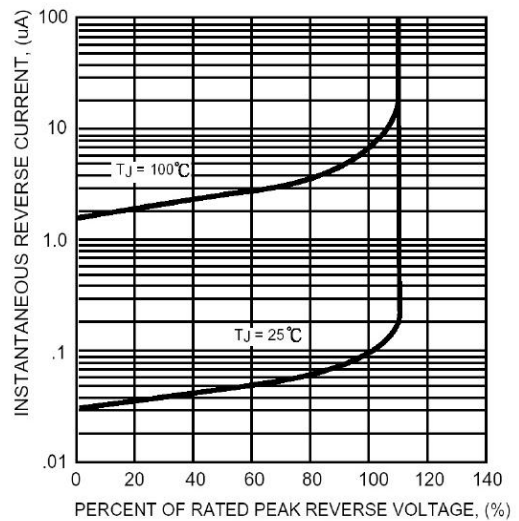
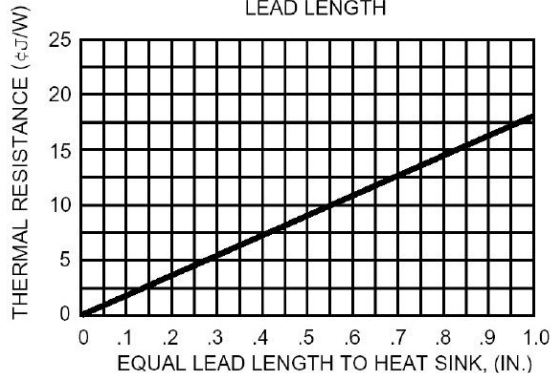


FIG. 5 - TYPICAL THERMAL RESISTANCE VS LEAD LENGTH



Note: Specifications are subject to change without notice.