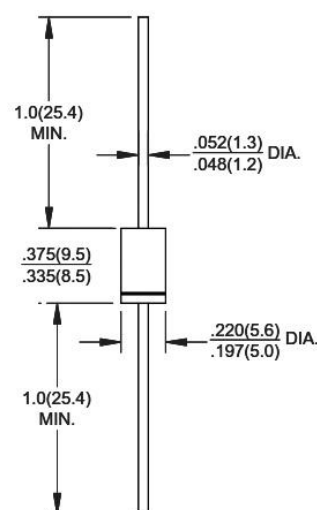


Kingtronics®**6A05 THRU 6A10****General Purpose Plastic Rectifier****REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 6.0 Ampere****FEATURES**

- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering guaranteed
- 260°C/10 seconds, 0.375" (9.5mm) lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any

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(FIG.1) 0.375" (9.5mm) lead length at $T_A=60^\circ\text{C}$	$I_{(AV)}$	6.0							Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150							Amps
Maximum Instantaneous Forward Voltage at 6.0A	V_F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking voltage	I_R	$T_A = 25^\circ\text{C}$							uA
		$T_A = 100^\circ\text{C}$							
Typical Junction Capacitance (NOTE 1)	C_J	150							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	10							°C/W
Operating and Storage Temperature Range	T_J, 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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6A05 THRU 6A10

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

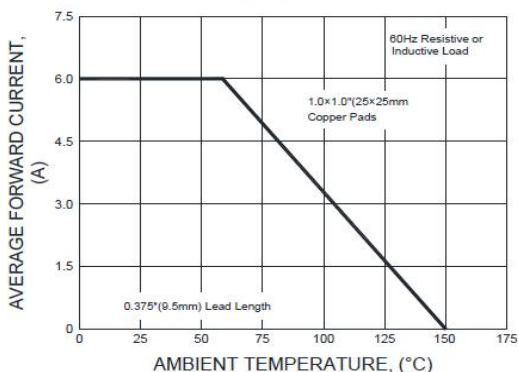


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

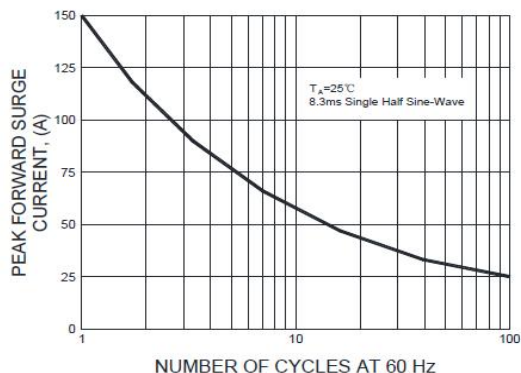


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

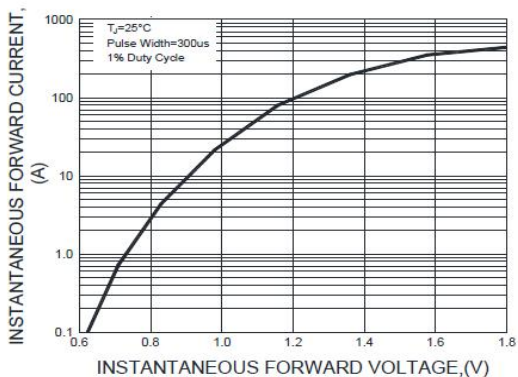


FIG.4-TYPICAL REVERSE CHARACTERISTICS

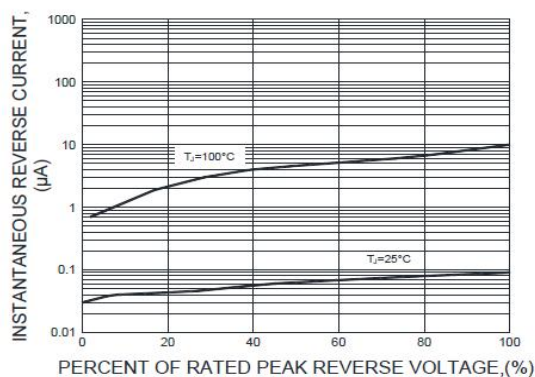
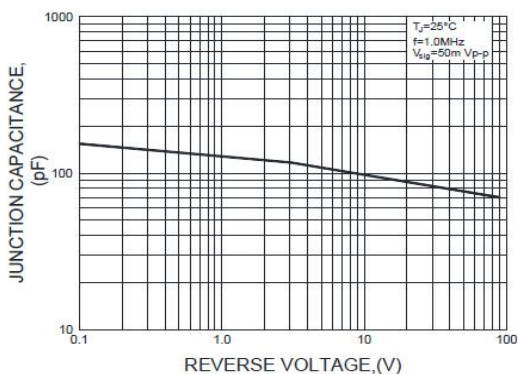


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.

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