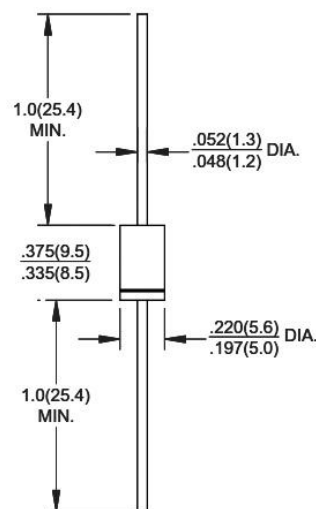


**Kingtronics®****6A05 THRU 6A10****General Purpose Plastic Rectifier****REVERSE VOLTAGE** 50 to 1000 Volts    **FORWARD CURRENT** 6.0 Ampere**FEATURES**

- 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%

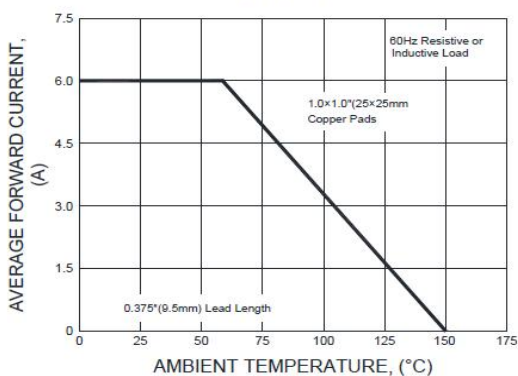
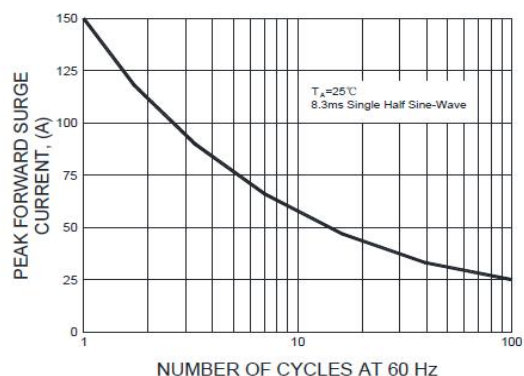
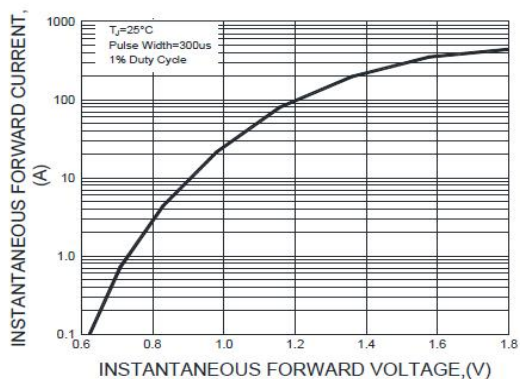
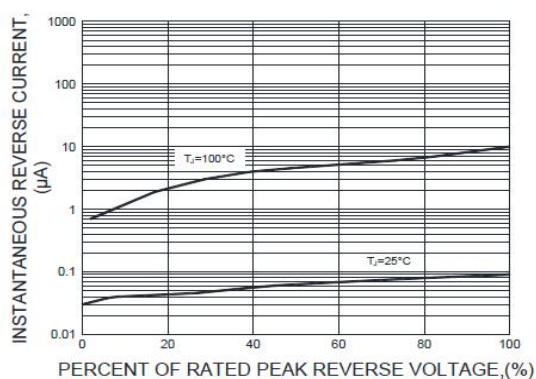
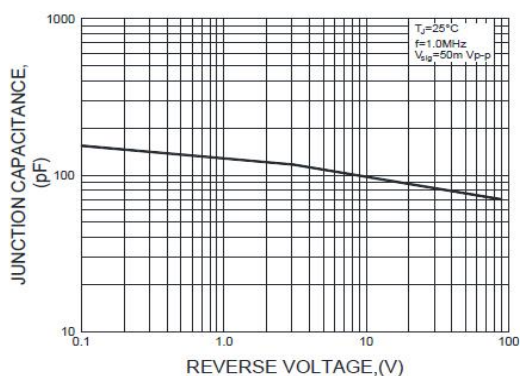
**Dimensions in inches and (millimeters)**

		SYMBOL	6A05	6A1	6A2	6A4	6A6	6A8	6A10	UNIT
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current(FIG.1) 0.375" (9.5mm) lead length at T <sub>A</sub> =60°C		I <sub>(AV)</sub>	6.0							Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )		I <sub>FSM</sub>	150							Amps
Maximum Instantaneous Forward Voltage at 6.0A		V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking voltage	T <sub>A</sub> = 25°C	I <sub>R</sub>	10							uA
	T <sub>A</sub> = 100°C		100							
Typical Junction Capacitance (NOTE 1)		C <sub>J</sub>	150							pF
Typical Thermal Resistance (NOTE 2)		R <sub>θJA</sub>	10							°C/W
Operating and Storage Temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-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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**Kingtronics®****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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