

**Kingtronics®****6A05 THRU 6A10****General Purpose Plastic Rectifier****VOLTAGE RANGE - 50 to 1000 Volts    Current - 6.0 Amperes****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**

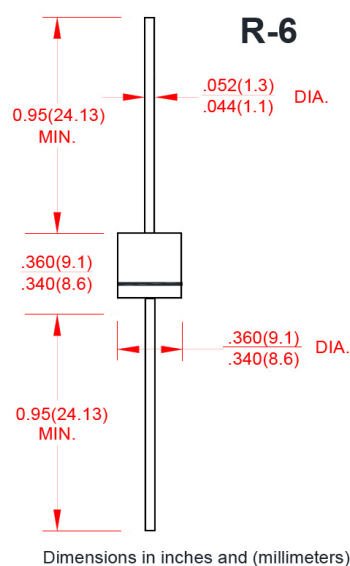
Case: Transfer molded plastic

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

**R-6****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 current derate by 20%.

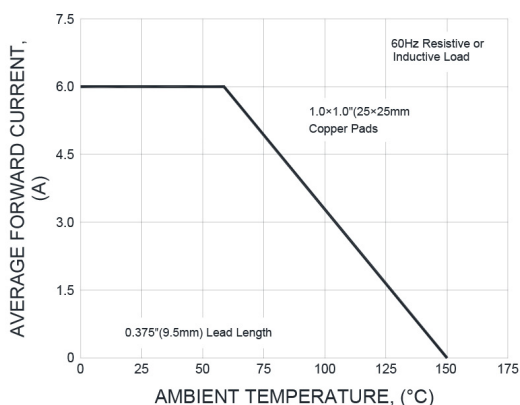
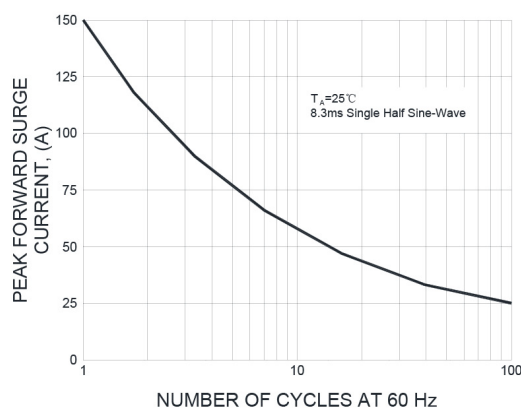
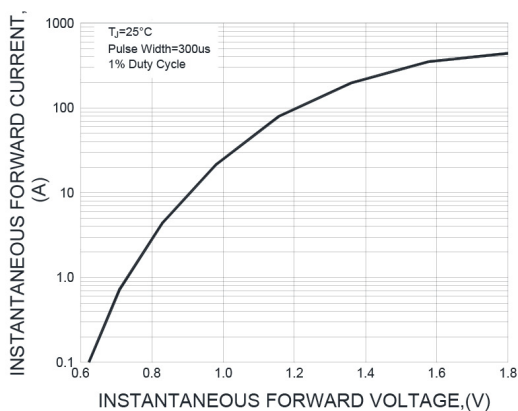
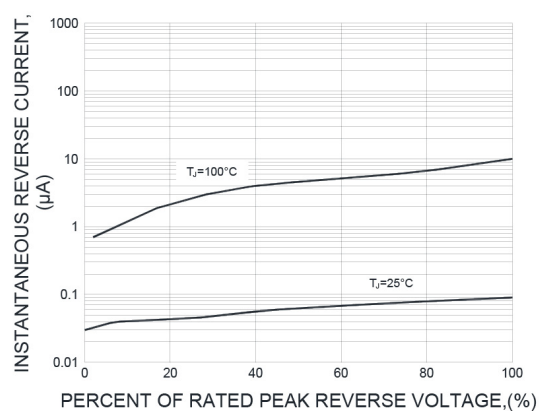
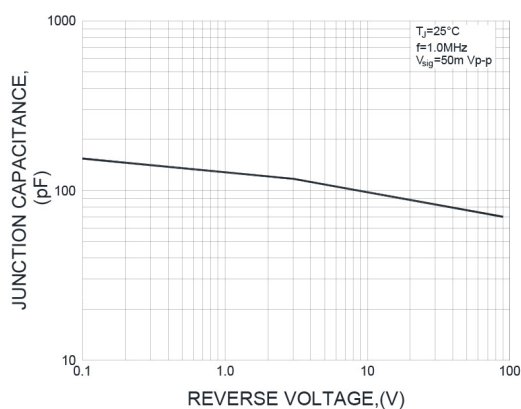
		SYMBOLS	6A05	6A1	6A2	6A4	6A6	6A8	6A10	UNITS
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current(FIG.1) 0.375"(9.5mm) lead length at TA=60°C		I <sub>(AV)</sub>	6.0							Amps
Peak forward surge current 8.3ms 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	TA=25°C	I <sub>R</sub>	10							µA
	TA=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 junction and storage temperature range		T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

- Note:**
1. Measured at 1.0MHz and applied reverse voltage of 4.0volts
  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****General Purpose Plastic Rectifier****VOLTAGE RANGE - 50 to 1000 Volts    Current - 6.0 Amperes****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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