

Kingtronics®**10A05G THRU
10A10G****General Purpose Plastic Rectifier****REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 10Ampere****FEATURES**

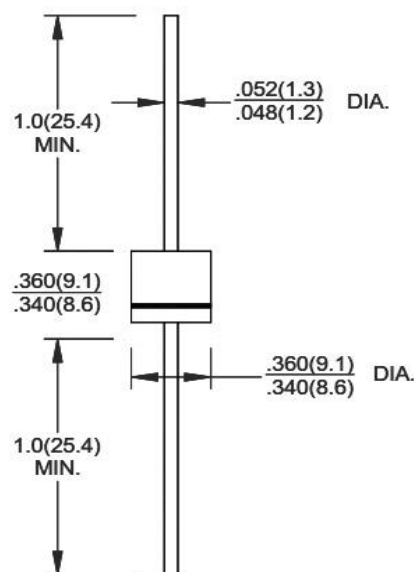
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering guaranteed
- 260°C/10 seconds, 0.375" (9.5mm) lead length at 5 lbs(2.3kg) tension
- Glass Passivated chip junction

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

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%**

R-6**Dimensions in inches and (millimeters)**

	SYMBOL	10A05G	10A1G	10A2G	10A3G	10A6G	10A8G	10A10G	UNIT
Maximum Recurrent Peak Reverse	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 $T_A=50^\circ\text{C}$	$I_{(AV)}$	10							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	400							Amps
Maximum Instantaneous Forward Voltage at 10A	V_F	1.1							Volts
Maximum DC Reverse Current $T_A=25^\circ\text{C}$ at rated DC Blocking voltage $T_A=100^\circ\text{C}$	I_R	10 100							μA
Typical Junction Capacitance (NOTE 1)	C_J	125							pF
Typical Thermal Resistance	$R_{\theta JA}$	8							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

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

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10A05G THRU 10A10G

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

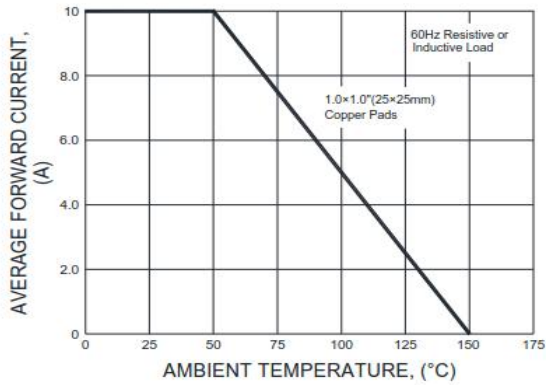


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

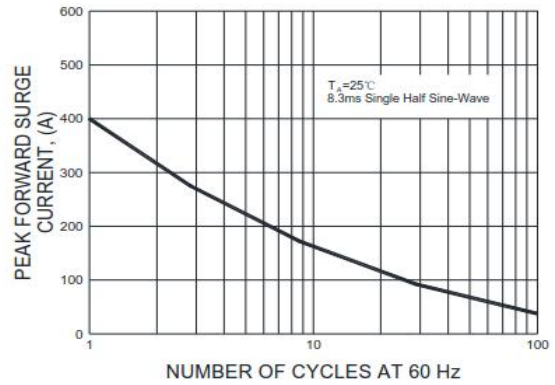


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

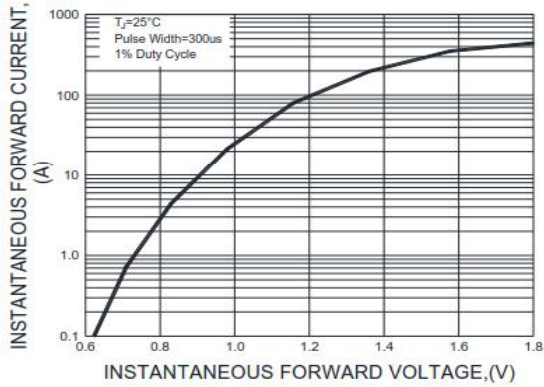


FIG.4-TYPICAL REVERSE CHARACTERISTICS

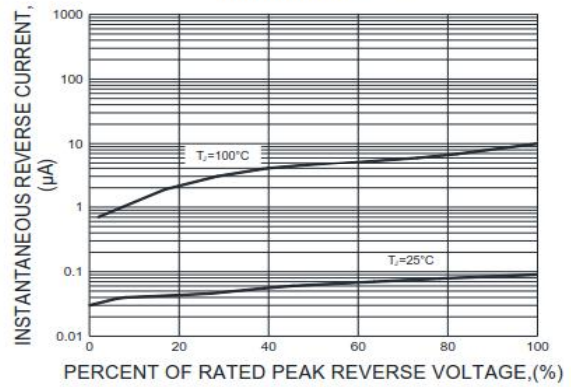
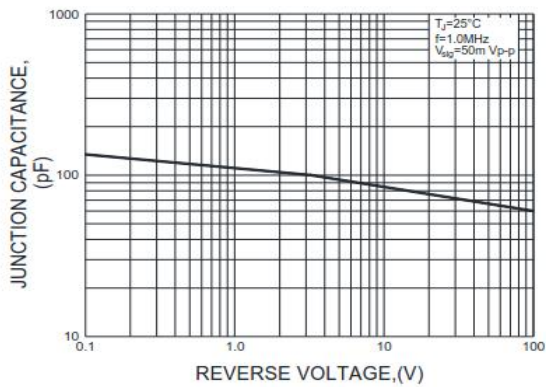


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.

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