Kingtronics®

1A1 THRU 1A7

General Purpose Plastic Rectifier

REVERSE VOLTAGE 50 to 1000 Volts **FORWARD CURRENT** 1.0 Ampere

R-1

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

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)

For capacitive load derate current by 20%										
		SYMBOL	1A1	1A2	1A3	1A4	1A5	1A6	1A7	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 =25°C		I _(AV)	1.0							Amps
Peak Forward Surge Current, 8.3 ms Single half sine-wave superimposed on rated load (JEDEC method)		I FSM	30						Amps	
Maximum Instantaneous Forward Voltage @ 1.0A		V _F	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking voltage	T _A = 25°C		5.0							
	T _A = 100°C	l _R	100							- uA
Typical Junction Capacitance (NOTE 1)		CJ	25						pF	
Typical Thermal Resistance (NOTE 2)		$R_{\theta JA}$	60							°C/W
Operating and Storage Temperature Range		T _J , Тsтg	-55 to +150							$^{\circ}\!\mathbb{C}$

- 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.

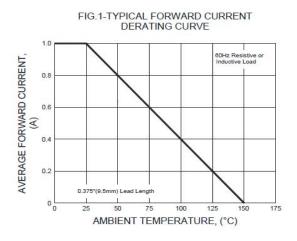
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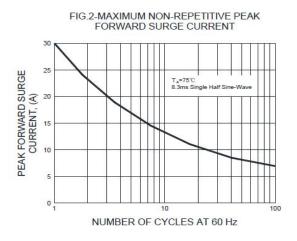
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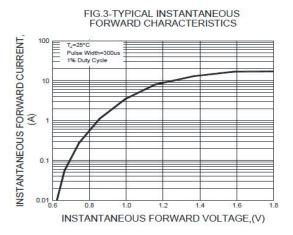
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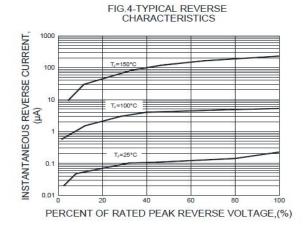
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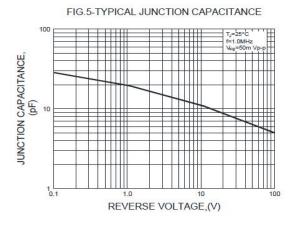
RATINGS AND CHARACTERISTIC CURVES











Note: Specifications are subject to change without notice.

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