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.

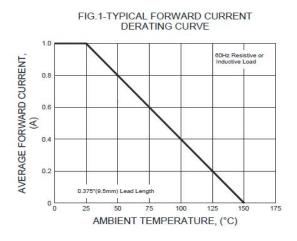
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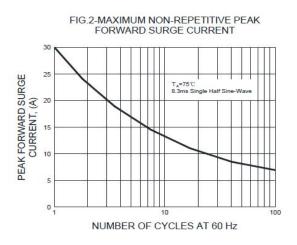
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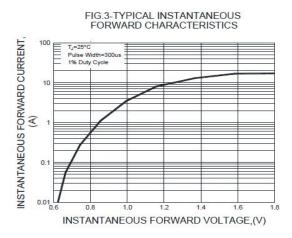
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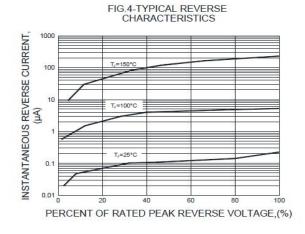
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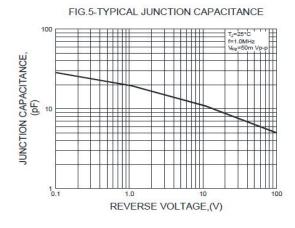
RATINGS AND CHARACTERISTIC CURVES











Note: Specifications are subject to change without notice.

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