Kingtronics®

1N4933 THRU 1N4937

FAST RECOVERY RECTIFIERS

DO-41

REVERSE VOLATAGE 50 to 600 Volts **FORWARD CURRENT** 1.0 Ampere

FEATURES

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Fast switching for high efficiency Low reverse leakage High forward surge current capability High temperature soldering guaranteed: 250 °C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: DO-41molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.26grams

0.107(2.7) 0.080(2.0) DIA. 0.205(5.2) 0.1066(4.2) 1.0 (25.4) MIN. 1.0 (25.4) MIN.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave, 60Hz, resistive or inductive load.

Dimensions in inches and (millimeters)

For capacitive load derate current by 20%							
PARAMETER	SYMBOL	1N 4933	1N 4934	1N 4935	1N 4936	1N 4937	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	VOLTS
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	VOLTS
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at T_A =75°C	I _(AV)	1.0					Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	FSM	30.0					Amps
Maximum instantaneous forward voltage at 1.0A	V_{F}	1.2					VOLTS
Maximum DC Reverse Current TA= 25°C		5.0 50.0					uA
at Rated DC blocking voltage $TA = 100^{\circ}C$	I R						
Maximum reverse recovery time (NOTE 1)	t _{rr}	200					ns
Typical Junction Capacitance (Note 1)	C _J	15.0					pF
Typical Thermal Resistance (Note 2)	Reja	50.0					℃W
Operating junction and storage temperature range	T _J ,Тsтg	-65 to +150					$^{\circ}$ C
4 Deverse receivery condition L O.E.A.L. 4.O.A.L. O.D.E.A.							

- 1- Reverse recovery condition I_E=0.5A,I_R=1.0A,I_{II}=0.25A
- 2-Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 3-Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted

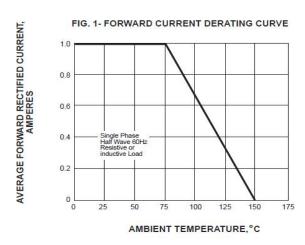
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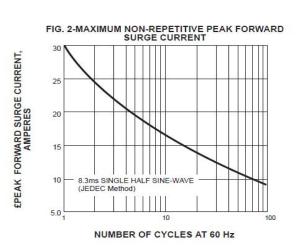
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

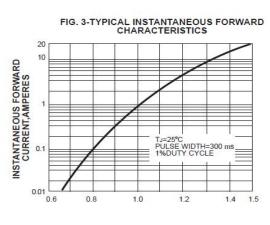
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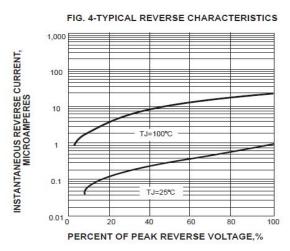
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RATINGS AND CHARACTERISTIC CURVES

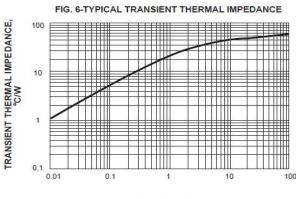


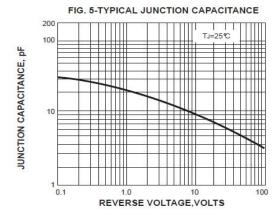












t,PULSE DURATION,sec.

Note: Specifications are subject to change without notice.

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Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099