1N4933 THRU 1N4937

FAST SWITCHING PLASTIC RECTIFIER VOLTAGE - 50 to 600 Volts CURRENT - 1.0 Ampere

FEATURES

- High surge current capability
- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O Utilizing
 Flame Retardant Epoxy Molding Compound
- Void-free Plastic in a DO-41 package
- 1.0 ampere operation at T_A=55 ¢J with no thermal runaway
- Fast switching for high efficiency
- Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

Case: Molded plastic, DO-41

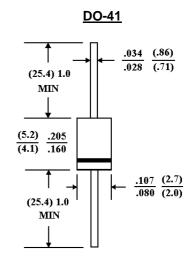
Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.012 ounce, 0.3 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	1N4933	1N4934	1N4935	1N4936	1N4937	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	V
Maximum RMS Voltage	35	70	140	280	420	V
Maximum DC Blocking Voltage	50	100	200	400	600	V
Maximum Average Forward Rectified	1.0					Α
Current .375"(9.5mm) lead length at T _A =55 ¢J						
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load(JECEC method)						Α
Maximum Forward Voltage at 1.0A	1.2					V
Maximum Reverse Current T _J =25 ¢J	5.0					£g A
at Rated DC Blocking Voltage T _J =100 ¢J	500					£g A
Typical Junction capacitance (Note 1) CJ	12					₽F
Maximum Reverse Recovery Time(Note 2)	200					ns
Typical Thermal Resistance (Note 3) R fK JA	41					¢J/W
Storage and Operating Temperature Range	-55 to +150					¢J
Storage and Operating Temperature Range	-55 to +150					¢J

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, I_{rr}=.25A
- 3. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length P.C.B. mounted



RATING AND CHARACTERISTIC CURVES 1N4933 THRU 1N4937

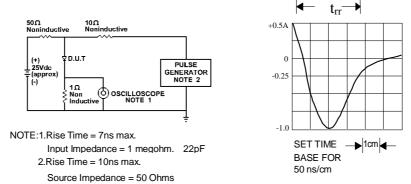


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

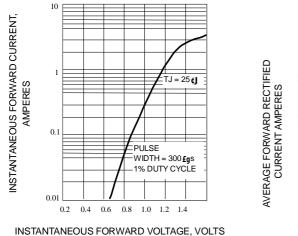
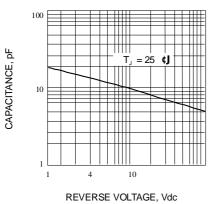


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

Fig. 3-FORWARD CURRENT DERATING CURVE





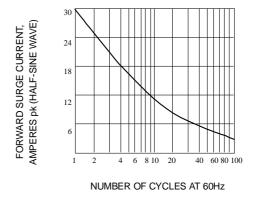


Fig. 5-PEAK FORWARD SURGE CURRENT

