

1N4933 THRU 1N4937

**FAST SWITCHING
PLASTIC RECTIFIER**
VOLTAGE:50 TO 600V CURRENT: 1.0A



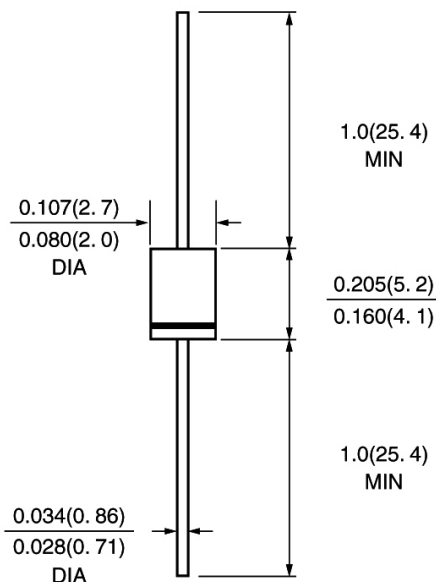
FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
250°C/10sec/0.375"lead length at 5 lbs tension
Fast switching for high efficiency

MECHANICAL DATA

Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity:color band denotes cathode
Mounting position:any

DO-41\DO-204AL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	1N 4933	1N 4934	1N 4935	1N 4936	1N 4937	units
* Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	200	400	600	V
* Maximum RMS Voltage	V _{rms}	35	70	140	280	420	V
* Maximum DC blocking Voltage	V _{dc}	50	100	200	400	600	V
* Maximum Average Forward Rectified Current 3/8"lead length at T _a =75°C	I _{f(av)}	1.0					A
* Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	30.0					A
* Maximum Forward Voltage at rated Forward Current and 25°C	V _f	1.2					V
* Maximum DC Reverse Current T _a =25°C at rated DC blocking voltage T _a =100°C	I _r	5.0 100.0					μA μA
* Maximum Reverse Recovery Time (Note 1)	T _{rr}	200.0					nS
Typical Junction Capacitance (Note 2)	C _j	15.0					pF
Typical Thermal Resistance (Note 3)	R(ja)	50.0					°C/W
Storage and Operation Junction Temperature	T _{stg} ,T _j	-50 to +150					°C

Note:

- Reverse Recovery Condition I_f =1.0A, V_r=30V
 - Measured at 1.0 MHz and applied reverse voltage of 4.0V_{dc}
 - Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted
- * JEDEC registered value¹

RATINGS AND CHARACTERISTIC CURVES 1N4933 THRU 1N4937

2

FIG. 1 - FORWARD CURRENT DERATING CURVE

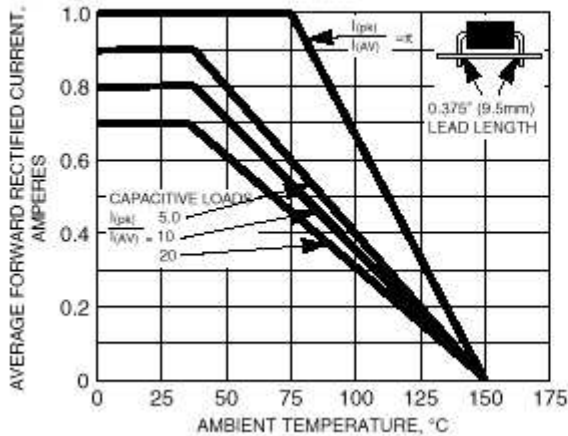


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

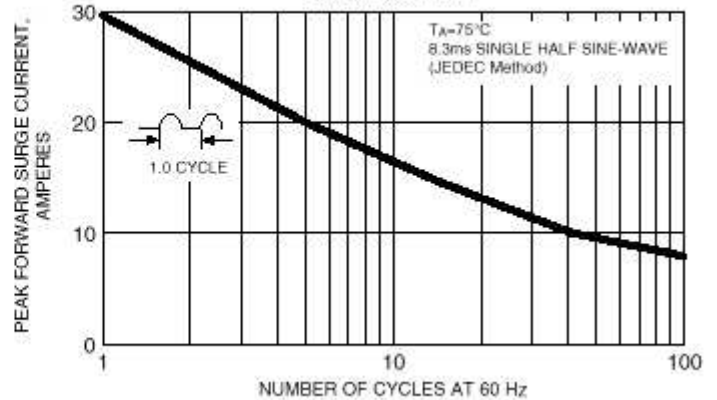


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

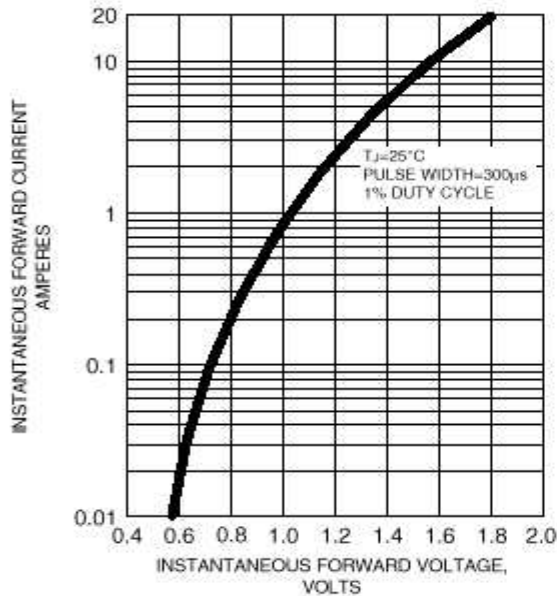


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

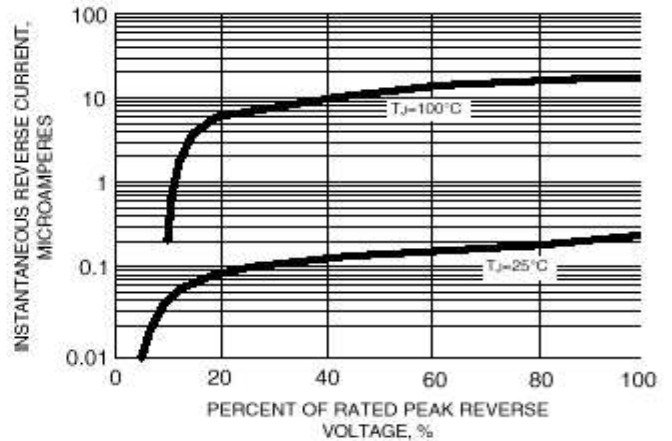


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

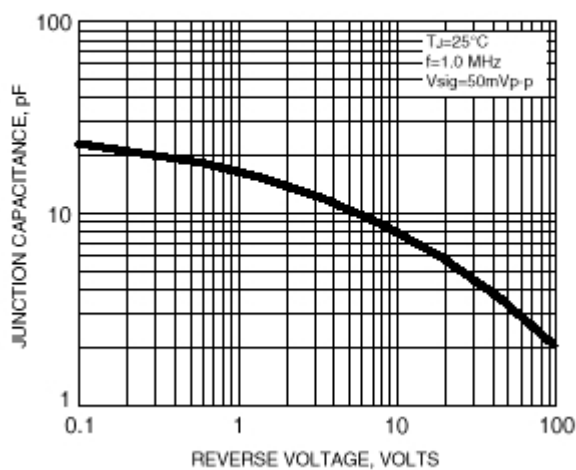


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

