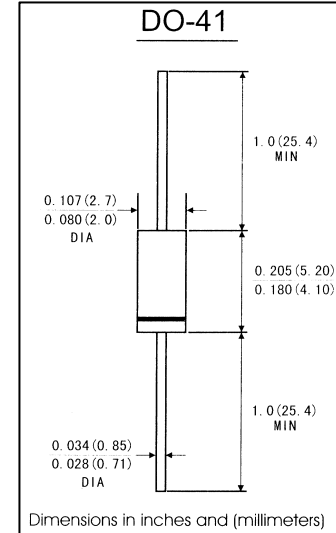


## FEATURES

- Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Fast switching speed
- Construction utilizes void-free molded plastic technique
- 1.0A operation at  $T_A=75^{\circ}\text{C}$  with to terminal runaway
- High temperature soldering guaranteed:  $250^{\circ}\text{C}/10$  seconds,  $0.375(9.5\text{mm})$ lead length, 5lbs.(2.3kg)tension

## MECHANICAL DATA

- Case:** JEDEC DO-41 molded plastic body
- Terminals:** lead solderable per MIL-STD-750,method 2026
- Polarity:** Color band denotes cathode end
- Mounting Position:** Any
- Weight:** 0.012 ounce, 0.34 gram



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at  $25^{\circ}\text{C}$  ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive)

load. For capacitive load, derate current by 20%)

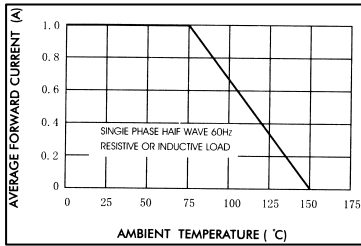
	Symbols	1N4933	1N4934	1N4935	1N4936	1N4937	Units
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	Volts
Maximum average forward rectified current $0.375(9.5\text{mm})$ lead length at $T_A=75^{\circ}\text{C}$	I(AV)	1.0					Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method) $T_A=75^{\circ}\text{C}$	IFSM	30.0					Amps
Maximum instantaneous forward voltage at 1.0 A	VF	1.3					Volts
Maximum DC Reverse Current at rated DC blocking voltage	IR	5.0					$\mu$ A
Maximum full load reverse current full cycle average. $0.375(9.5\text{mm})$ lead length at $T_L=55^{\circ}\text{C}$		100					
Maximum reverse recovery time(Note 1)	Trr	200.0					ns
Typical junction Capacitance(Note 2)	CJ	15.0					pF
Operating and storage temperature range	TJ TSTG	-65 to +150					$^{\circ}\text{C}$

**Notes:** 1. Test conditions:  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{rr}=0.25\text{A}$ .

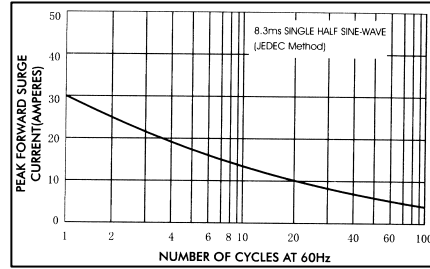
2. Measured at 1MHz and applied reverse voltage of 4.0V Volts

**RATINGS AND CHARACTERISTIC CURVES 1N4933 THRU 1N4937**

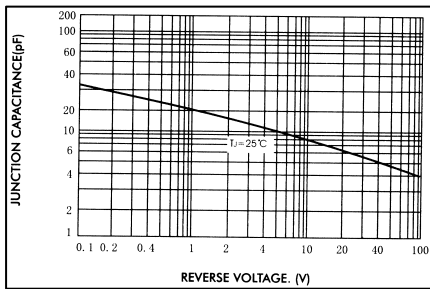
**FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE**



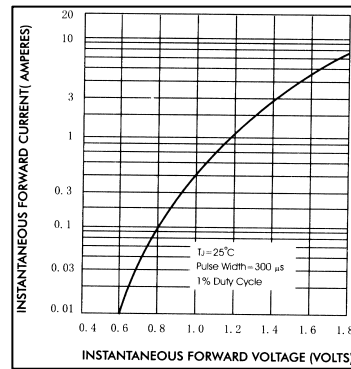
**FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3-TYPICAL JUNCTION CAPACITANCE**



**FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISIC**

