

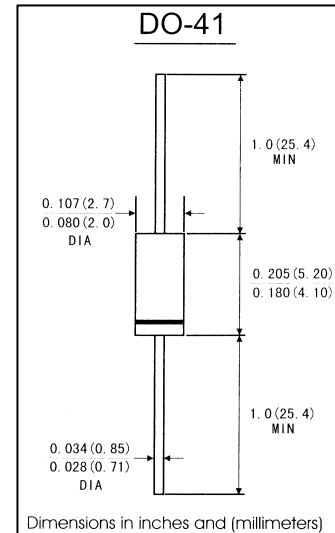


FEATURES

- . 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"(9.5mm)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°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 |
| Macimum average forward rectified current 0.375"(9.5mm)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 Rreverse Current at rated DC blocking voltage | IR | 5.0 | | | | | μ A |
| Maximum full load reverse current full cycle average. 0.375"(9.5mm)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

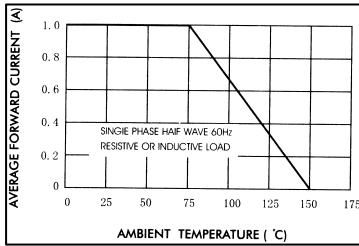


FIG.2-MAXIMUM NON-REPETITIVE PEAK

FORWARD SURGE CURRENT

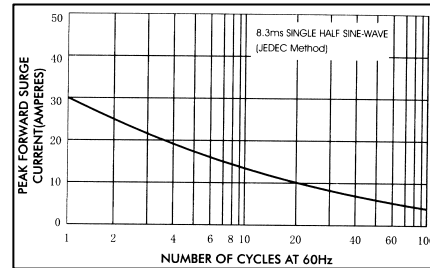


FIG.3-TYPICAL JUNCTION CAPACITANCE

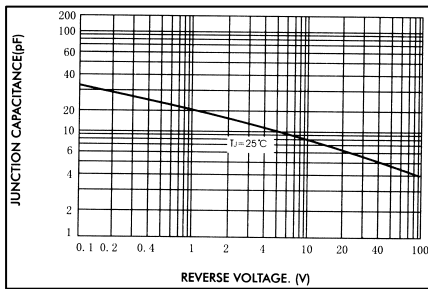


FIG.4-TYPICAL INSTANTANEOUS FORWARD

CHARACTERISTICS

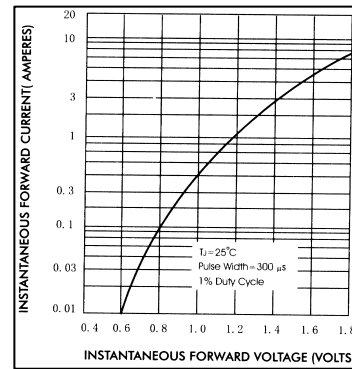


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISIC

