

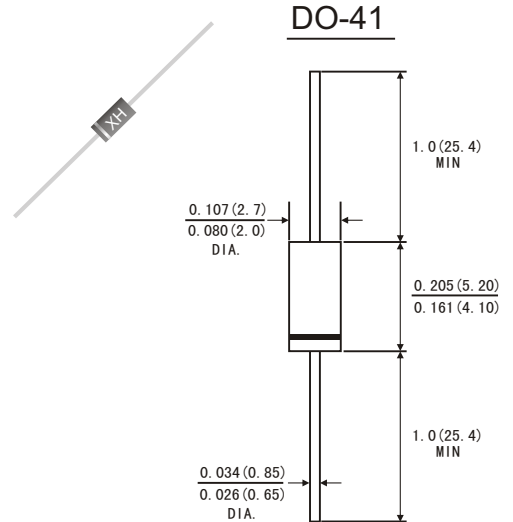


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 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 Recurrent 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"(9.5mm)lead length at TA=50°C | I(AV) | 1.0 | | | | | Amps | |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) at TA=75°C | IFSM | 30.0 | | | | | Amps | |
| Maximum Instantaneous Forward Voltage at 1.0 A | VF | 1.2 | | | | | Volts | |
| Maximum DC Reverse Current at rated DC blocking voltage | TA=25°C | IR | | | | | 5.0 | μA |
| | TA=100°C | | | | | | | |
| Maximum reverse recovery time(Note1) | trr | 200 | | | | | ns | |
| Typical junction capacitance(Note2) | CJ | 15.0 | | | | | pF | |
| Operating junction and storage temperature range | TJ TSTG | -65 to +150 | | | | | °C | |

Note: 1.Test conditions: IF=1.0A,VR=30V , di/dt=50A/μs, and Irr=10%IRM
2.Measured at 1MHz and applied reverse voltage of 4.0 Volts D.C.



FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

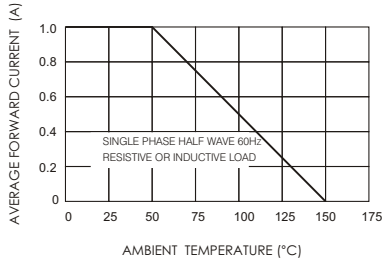


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

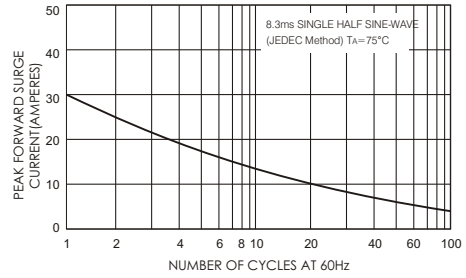


FIG.3-TYPICAL JUNCTION CAPACITANCE

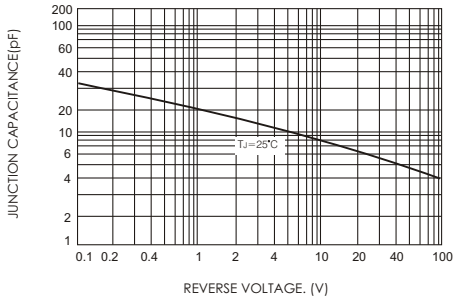


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

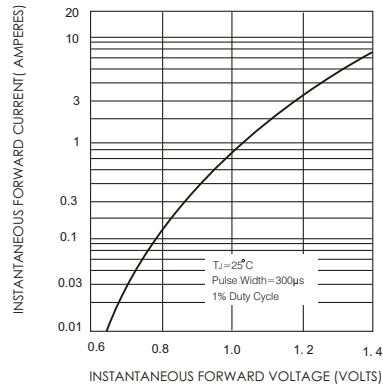
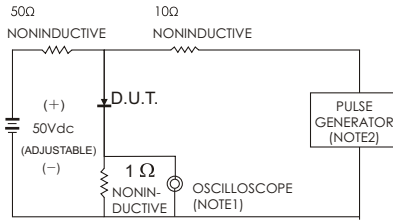


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time = 7ns max. input Impedance = 1 megohm 22pF
2. Rise Time = 10ns max. source Impedance = 50 ohms

