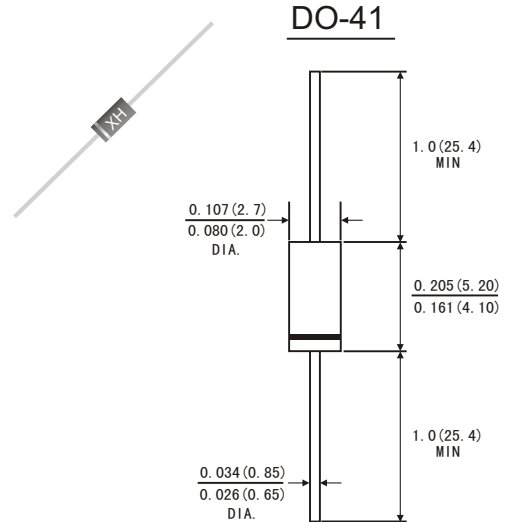


FEATURES

- 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



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	V _{RRM}	50	100	200	400	600	Volts	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	Volts	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	Volts	
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T _A =50°C	I _(AV)	1.0					Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) at T _A =75°C	I _{FSM}	30.0					Amps	
Maximum Instantaneous Forward Voltage at 1.0 A	V _F	1.2					Volts	
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25°C	I _R					5.0	μA
	T _A =100°C							
Maximum reverse recovery time(Note1)	t _{rr}	200					ns	
Typical junction capacitance(Note2)	C _J	15.0					pF	
Operating junction and storage temperature range	T _J T _{STG}	-65 to +150					°C	

Note: 1. Test conditions: I_F=1.0A, V_R=30V, di/dt=50A/μs, and I_{rr}=10%I_{RM}
2. Measured at 1MHz and applied reverse voltage of 4.0 Volts D.C.

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

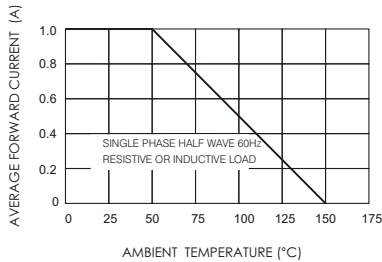


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

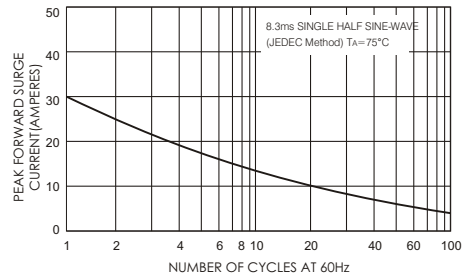


FIG.3-TYPICAL JUNCTION CAPACITANCE

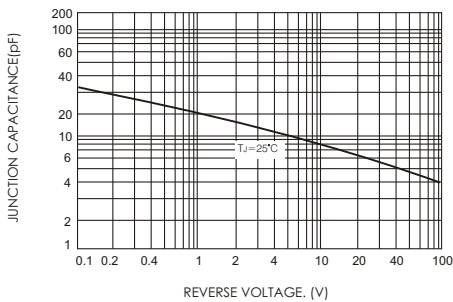


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

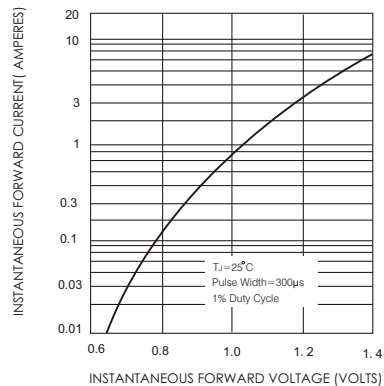
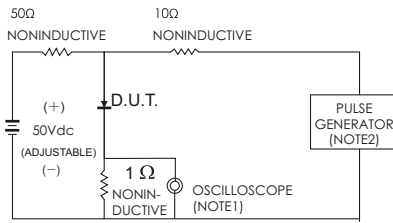


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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

