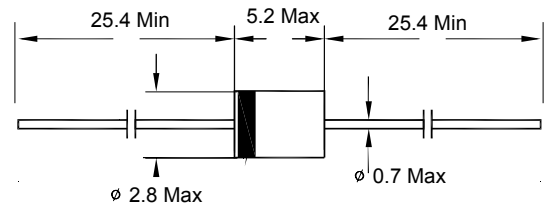


## FEATURES

- Low coat construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:

## 1N4933-1N4937



DO-41 Dimensions in millimeters

## MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 ° C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, 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"(9.5mm) lead length at TA= 75°C	I(AV)	1.0					Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	IFSM	30					Amps
Maximum Instantaneous Forward Voltage @ 1.0A	VF	1.2					Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	5.0					µA
		100					
Maximum Reverse Recovery Time (Note 3) TJ=25°C	trr	200					ns
Maximum Reverse Recovery Current (NOTE 3)	IRM(REC)	2.0					Amps
Typical Junction Capacitance (Note 1)	CJ	15					pF
Typical Thermal Resistance (Note 2)	RθJA	50					°C/W
Operating Junction Temperature Range	TJ	(-55 to +150)					°C
Storage Temperature Range	TSTG	(-55 to +150)					°C

### Notes:

- 1.Measured at 1.0MHz and Applied Reverse Voltage of 4.0Volts.
- 2 Thermal Resistance from junction to Ambient at .375"(9.5mm)lead length, P.C.board mounted.
- 3.Reverse Recovery Test Conditions: If=1.0A, Vr=30V, di/ dt=50A/us, Irr=10% Irr=10% Irm for the measurement of trr.

# 1N4933-1N4937

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

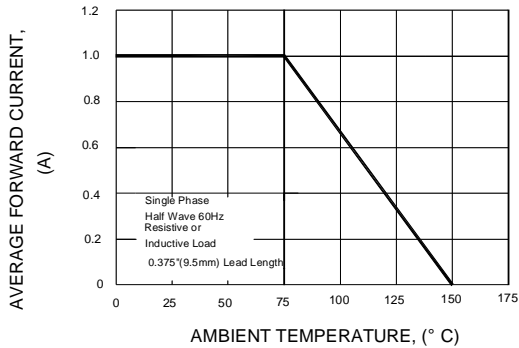


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

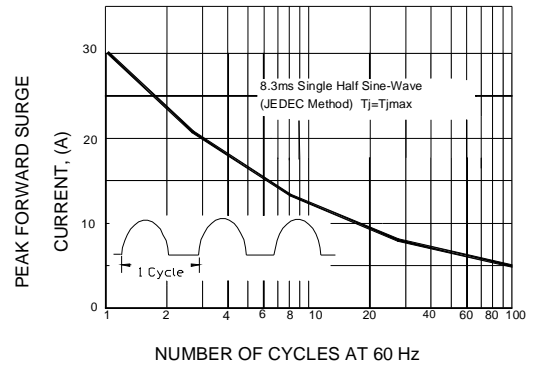


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

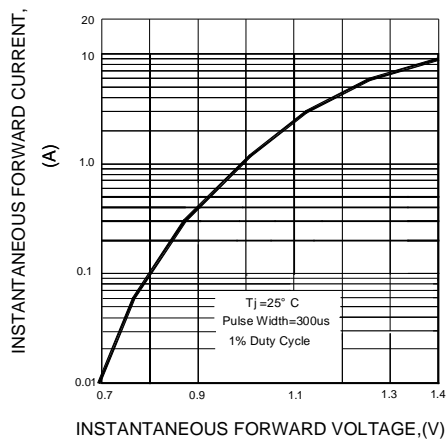


FIG.4-TYPICAL REVERSE CHARACTERISTICS

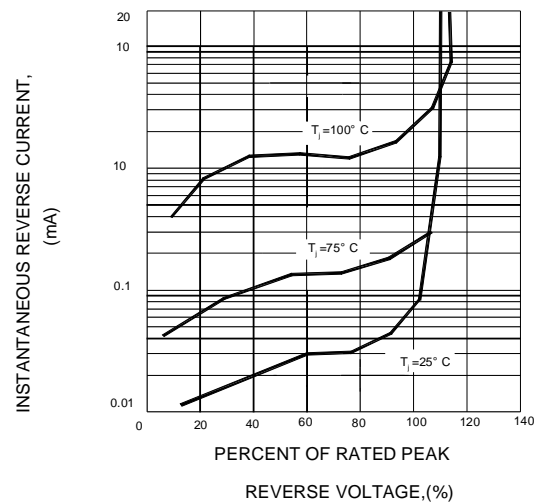


FIG.5-TYPICAL JUNCTION CAPACITANCE

