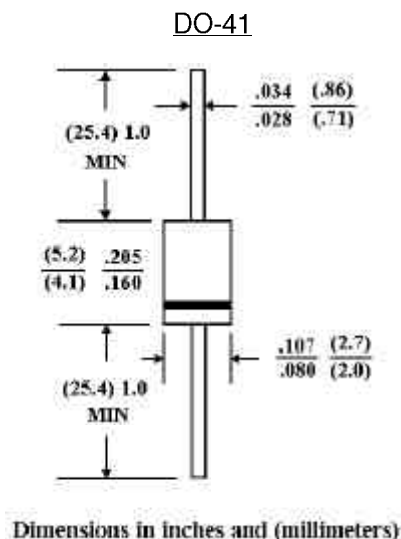


FEATURES

- High surge current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 Utilizing Flame Retardant Epoxy Molding Compound
- 1.0 ampere operation at $T_A=55^\circ\text{C}$ with no thermal runaway
- Fast switching for high efficiency
- Exceeds environmental standards of MIL-S-19500/228
- Glass passivated junction in DO-41 package

MECHANICAL DATA

- Case: Molded plastic, DO-41
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Band denotes cathode
- Mounting Position: Any
- Weight: 0.012 ounce, 0.3 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%.

	TE 4933	TE 4934	TE 4935	TE 4936	4937	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	V
Maximum RMS Voltage	35	70	140	280	420	V
Maximum DC Blocking Voltage	50	100	200	400	600	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_A=55^\circ\text{C}$	1.0					A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load(JEDEC method)	30					A
Maximum Forward Voltage at 1.0A	1.2					V
Maximum Reverse Current $T_a=25^\circ\text{C}$	5.0					μgA
at Rated DC Blocking Voltage $T_a=100^\circ\text{C}$	150					μgA
Typical Junction capacitance (Note 1) C_J	12					μF
Typical Thermal Resistance (Note 3) $R_{\theta\text{JKJA}}$	67					$^\circ\text{C/W}$
Maximum Reverse Recovery Time(Note 2)	200					ns
Operating and Storage Temperature Range	-55 to +150					$^\circ\text{C}$

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
2. Reverse Recovery Test Conditions: $I_F=.5\text{A}$, $I_R=1\text{A}$, $I = .25\text{A}$
3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length P.C.B. mounted

RATING AND CHARACTERISTIC CURVES

TE 4933 THRU TE 4937

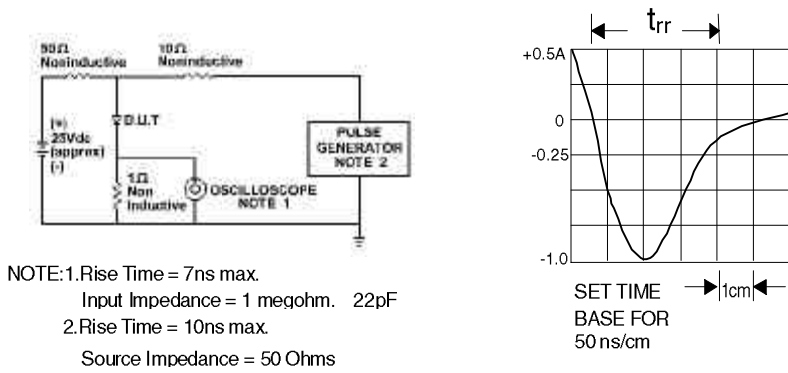


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

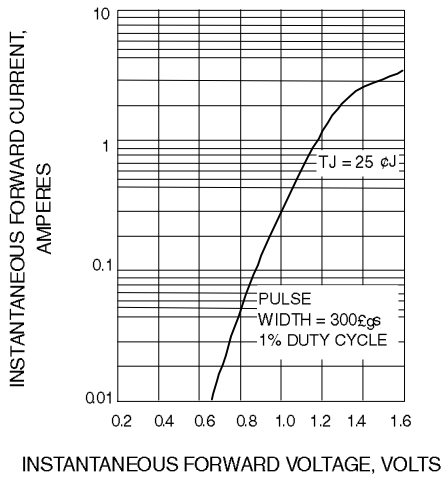


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

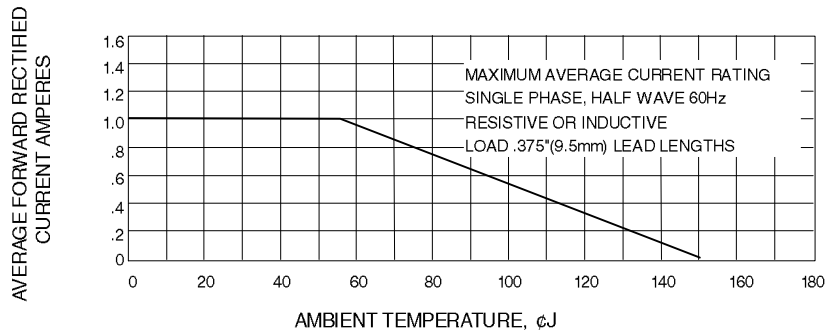


Fig. 3-FORWARD CURRENT DERATING CURVE

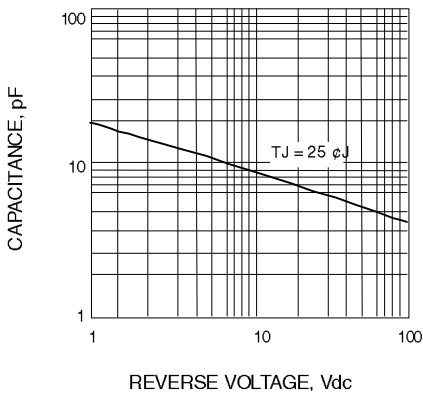


Fig. 4-TYPICAL JUNCTION CAPACITANCE

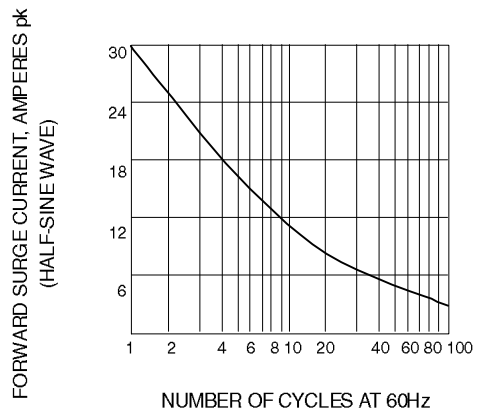


Fig. 5-PEAK FORWARD SURGE CURRENT