



VOLTAGE RANGE
CURRENT

50 to 600 Volts
1.0 Ampere

DO-41

-
- Technical drawing of a shaft with dimensions in inches and millimeters. The shaft has a total length of 1.0 (25.4) MIN. The top section has a diameter of .034 (0.9) / .028 (0.7) DIA. The bottom section has a diameter of .107 (2.7) / .080 (2.0) DIA. The central section has a diameter of .205 (5.2) / .160 (4.2). The central section is 1.0 (25.4) MIN. long.

Dimensions in inches and (millimeters)

- ## 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		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 $T_A = 75^{\circ}C$		$I_{(AV)}$	1.0					Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	30					Amps
Maximum Instantaneous Forward Voltage @ 1.0A		V_F	1.2					Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^{\circ}C$	I_R	5.0					μA
	$T_A = 100^{\circ}C$		100					
Maximum Reverse Recovery Time (Note 3) $T_J = 25^{\circ}C$		t_{rr}	200					ns
Maximum Reverse Recovery Current (NOTE 3)		$I_{RM}(REC)$	2.0					Amps
Typical Junction Capacitance (Note 1)		C_J	15					pF
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	50					$^{\circ}C/W$
Operating Junction Temperature Range		T_J	(-55 to +150)					$^{\circ}C$
Storage Temperature Range		T_{STG}	(-55 to +150)					$^{\circ}C$

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.



FAST RECOVER RECTIFIER

1N4933 THRU 1N4937

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RATING AND CHARACTERISTIC CURVES 1N4933 THRU 1N4937

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

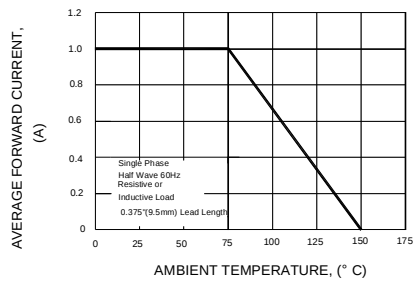


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

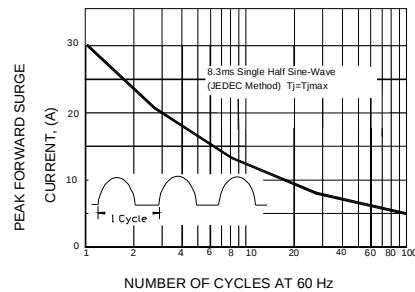


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

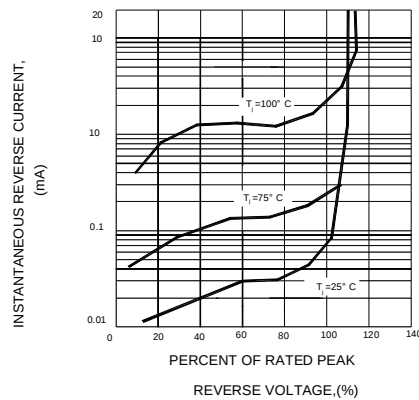


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

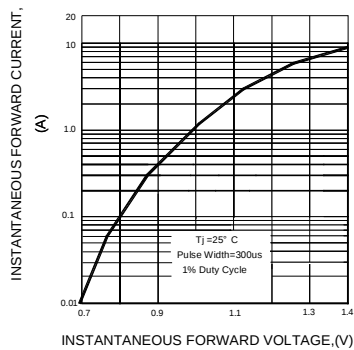


FIG.5-TYPICAL JUNCTION CAPACITANCE

