Voltage Range - 50 to 600 V Forward Current - 1 Ampere

FAST RECOVERY RECTIFIER

FEATURES

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

260°C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

• Case: Transfer molded plastic

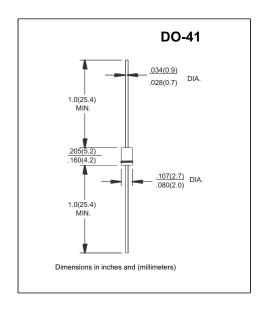
■ Epoxy: UL94V-O rate flame retardant

Polarity: Color band denotes cathode end

Lead: Plated axial lead, solderable per MIL-STD-202E method 208C

Mounting position: Any

■ Weight: 0.012 ounce, 0.33 grams



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 °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 °C	ī	5.0					μΑ
	$T_A = 100$ °C	I_R	100					
Maximum Reverse Recovery Time (Note 3) T _J =25°C		trr	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)		$R_{ heta JA}$	50					°C/W
Operating Junction Temperature Range		$T_{\rm J}$	(-55 to +150)					$^{\circ}$ C
Storage Temperature Range		T_{STG}	(-55 to +150)					$^{\circ}$

Notes

- 1.Measured at 1.0MHz and Applied Reverse Voltage of 4.0Volits.
- 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.

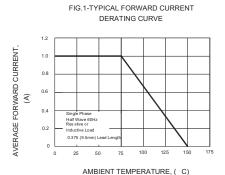
Email: sales@micindia.com Website: www.micindia.com

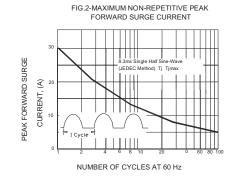


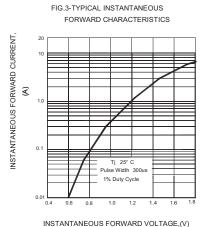
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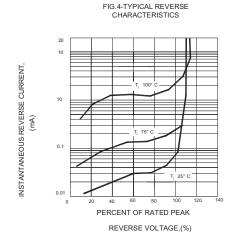
FAST RECOVERY RECTIFIER

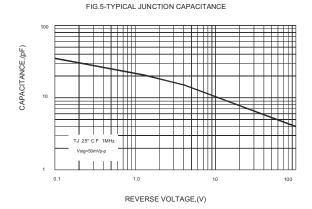
RATING AND CHRACTERISTIC CURVES 1N4933 - 1N4937











Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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