

IN4933 thru IN4937

FAST SWITCHING RECTIFIER



**CHENG-YI
ELECTRONIC**



VOLTAGE RANGE 50 TO 600 Volts
CURRENT 1.0 Amperes

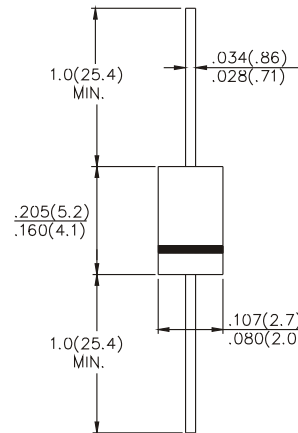
FEATURE

- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

MECHANICAL DATA

- Case: Mold plastic use UL 94V-0 recognized flame retardant epoxy
- Terminals: Axial leads, solderable per MIL-STD-202, method 208
- Polarity: Color band denotes cathode
- Mounting Position: Any

DO-41



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%.

	IN4933	IN4934	IN4935	IN4936	IN4937	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 = 75°C	1.0					A
Peak Forward Surge Current 8.3 ms single half sine-wave	50					A
Maximum Forward Voltage at 1.0A Peak	1.2					V
Maximum Full Load Reverse Current, Full Cycle Average, .375", (9.5mm) Lead Length at T _A = 55°C	30					μ A
Maximum DC Reverse Current, at Rated DC Blocking Voltage	5.0					μ A
Maximum Reverse Recovery Time (Note 1)	200					nS
Typical Junction Capacitance (Note 2)	20					pF
Operating and Storage Temperature Range	-65 to +175					°C

Notes : 1. Reverse Recovery Test Conditions : I_F = 1A, V_R = 30V
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

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RATING AND CHARACTERISTICS CURVES IN4933 THRU IN4937

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

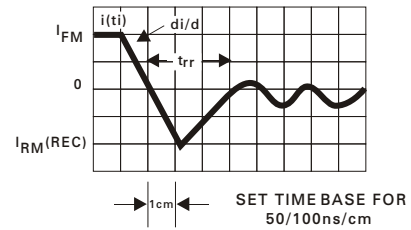
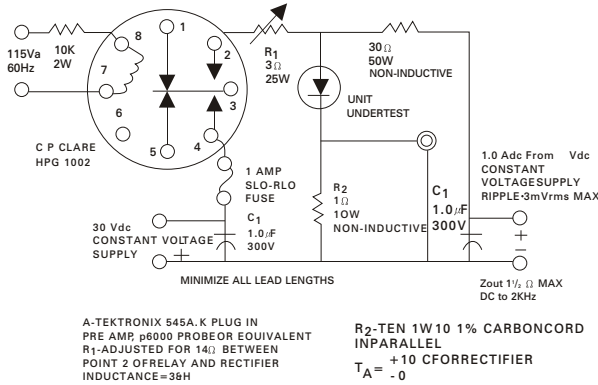


Fig. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

Fig. 2 - FORWARD CURRENT DERATING CURVE

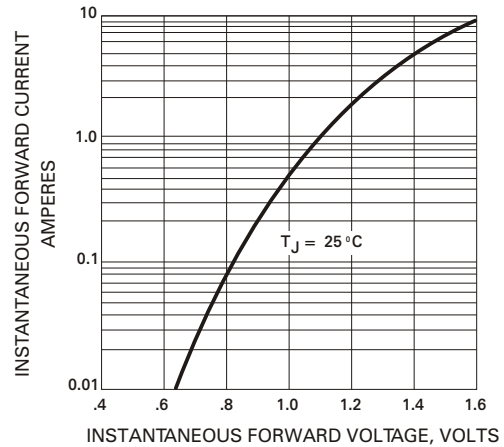
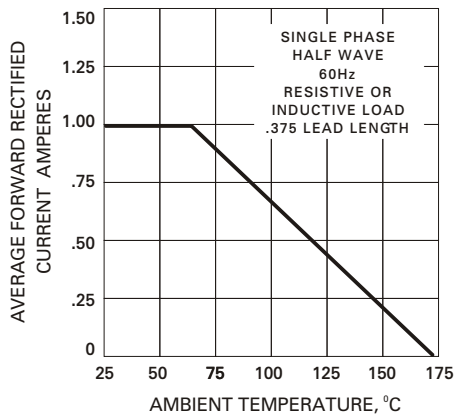


Fig. 4 - TYPICAL JUNCTION CAPACITANCE

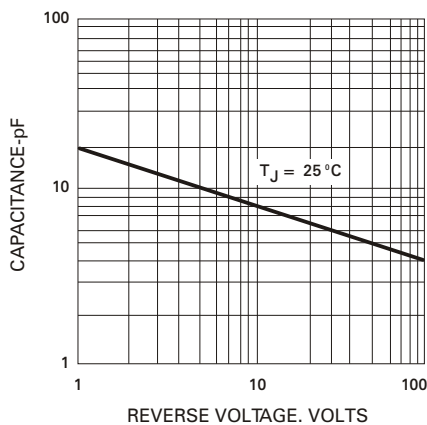


Fig. 5 - PEAK FORWARD SURGE CURRENT

