
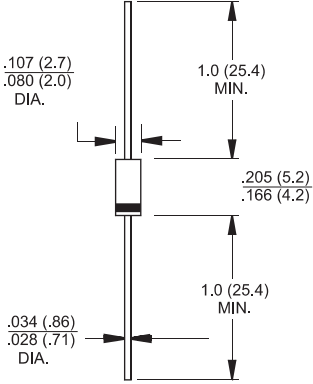
		<h1 style="text-align: center;">1N4933 THRU 1N4937</h1> <h2 style="text-align: center;">1.0 AMP. Fast Recovery Rectifiers</h2>						
		Voltage Range 50 to 600 Volts Current 1.0 Ampere						
Features <ul style="list-style-type: none"> ✧ Low forward voltage drop ✧ High current capability ✧ High reliability ✧ High surge current capability 		DO-41 						
Mechanical Data <ul style="list-style-type: none"> ✧ Cases: Molded plastic ✧ Epoxy: UL 94V-O rate flame retardant ✧ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed ✧ Polarity: Color band denotes cathode end ✧ High temperature soldering guaranteed: 260°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension ✧ Weight: 0.34gram 		Dimensions in inches and (millimeters)						
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%								
Type Number	Symbol	1N4933	1N4934	1N4935	1N4936	1N4937	Units	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V	
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ $T_A = 50^\circ\text{C}$	$I_{(AV)}$	1.0					A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30					A	
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	1.2					V	
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	5.0 100					uA uA	
Maximum Reverse Recovery Time (Note 1)	T_{rr}	200					nS	
Typical Junction Capacitance (Note 2)	C_j	10					pF	
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	65					$^\circ\text{C/W}$	
Operating Temperature Range	T_J	-65 to +150					$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-65 to +150					$^\circ\text{C}$	

Notes: 1. Reverse Recovery Test Conditions: $I_F=1.0A$, $V_R=30V$, $di/dt=50A/uS$, $I_{rr}=10\%$ IRM for Measurement of t_{rr} .

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

3. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

RATINGS AND CHARACTERISTIC CURVES (1N4933 THRU 1N4937)

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

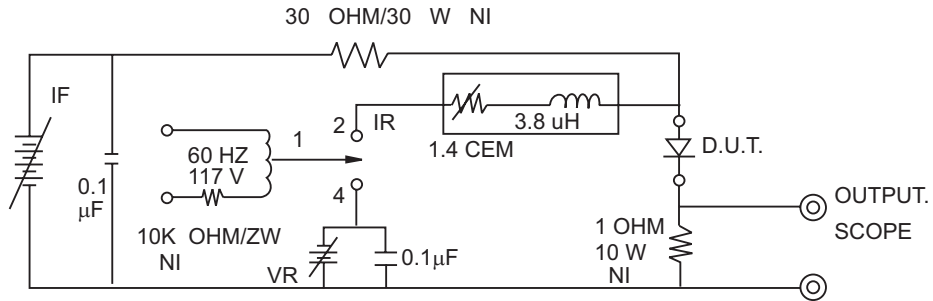


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

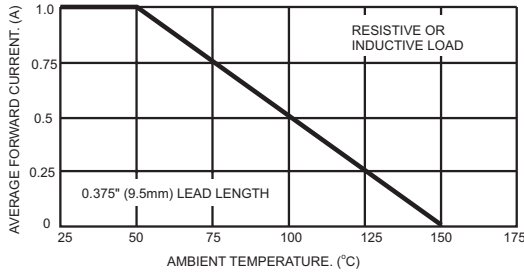


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

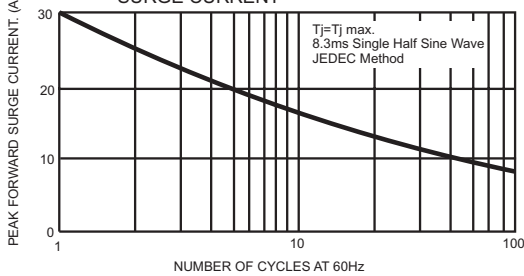


FIG.4- TYPICAL JUNCTION CAPACITANCE

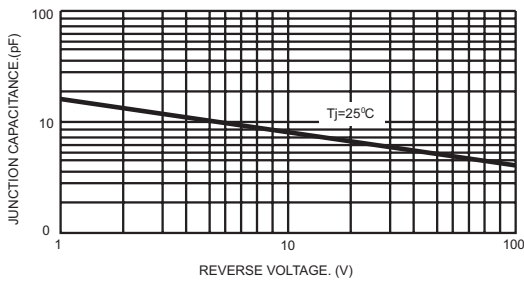


FIG.5- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

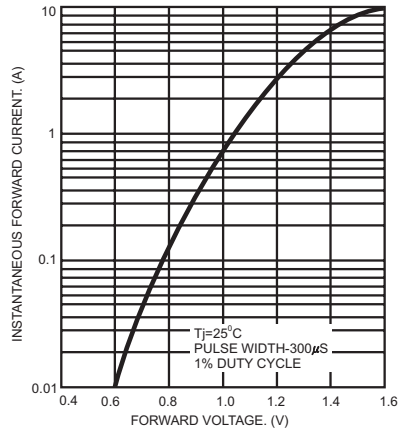


FIG.6- TYPICAL REVERSE CHARACTERISTICS

