

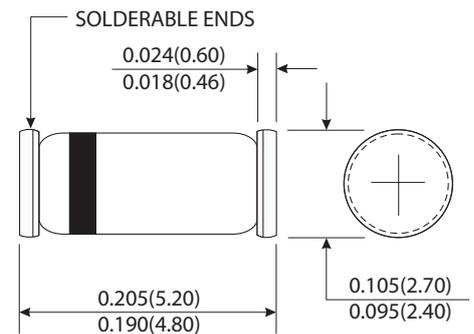
SM4933 THRU SM4937

CURRENT 1.0 Ampere
VOLTAGE 50 to 600 Volts

Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Glass passivated junction
- High temperature soldering guaranteed : 250 °C/10 seconds, at terminals

MELF (DO-41)



Mechanical Data

- Case : JEDEC MELF(DO-41) molded plastic body
- Terminals : Lead solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.0041 ounce, 0.116 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 by 20%)

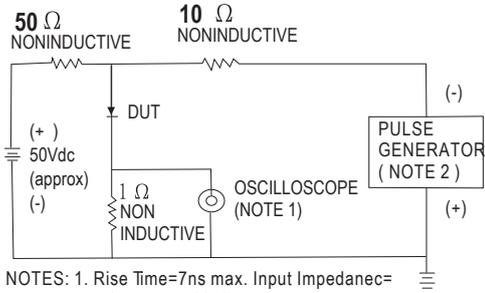
	Symbols	SM4933	SM4934	SM4935	SM4936	SM4937	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	Volts
Maximum average forward rectified current T _A =75 °C	I _(AV)	1.0					Amp
Peak forward surge current 8.3ms half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	30					Amps
Maximum instantaneous forward voltage at 1.0A	V _F	1.2					Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	T _A =25 °C					μ A
		T _A =100 °C					
Maximum reverse recovery time (Note 3)	t _{rr}	150					ns
Typical junction capacitance (Note 1)	C _J	15.0					pF
Typical thermal resistance (Note 2)	R _{θ JA}	60					°C/W
Operating and storage temperature range	T _J	-55 to +150					°C
	T _{STG}	-55 to +150					

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from junction to ambient.
- (3) Reverse recovery test conditions : I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

RATINGS AND CHARACTERISTIC CURVES SM4933 THRU SM4937

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



NOTES: 1. Rise Time=7ns max. Input Impedance= 1 megohm 22pf
 2. Rise Time=10ns max. Source Impedance= 50 ohms

