

FEATURES

- Ideal for surface mounted applications
- Low leakage current
- Glass passivated chips
- Fast switching
- High temperature soldering guaranteed :
250°C/10 seconds/.375" , (9.5mm) lead lengths

Mechanical Data

Case : Molded plastic use UL94V-0 recoznized
flame retardant epoxy

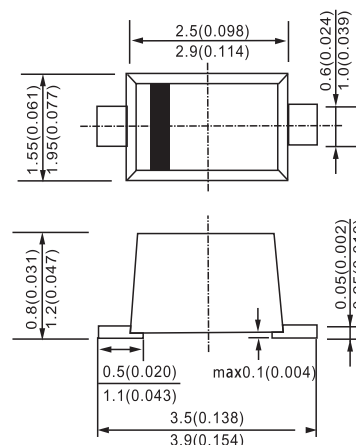
Terminals : Plated terminals, solderable per
MIL-STD-202, Method208

Polarity : Red Color band on body denotes cathode

Mounting position : Any

Weight : 0.036gram

SOD-123FL



Dimensions in 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%

	SYMBOL	FM4933	FM4934	FM4935	FM4936	FM4937	UNITS
Maximum Current 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 $T_J=55^{\circ}C$	I_{AV}	1.0					Amps
Peak Forward Surge Current Single Sine-Wave on Rated Load (JEDEC Method)	I_{FSM}	30					Amps
Maximum Instantaneous Forward Voltage Drop at 1.0A DC	V_F	1.3					Volts
Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage $T_A=125^{\circ}C$	I_R	5 100					μA
Maximum Reverse Recovery Time, Time, Test Conditions : $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$	T_{RR}	150				250	nS
Typical Junction Capacitance	C_J	15					pF
Operating Junction and Storage Temperature Range	T_J T_{STG}	-55 to +150					$^{\circ}C$

RATINGS AND CHARACTERISTIC CURVES FM4933 THRU FM4937

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

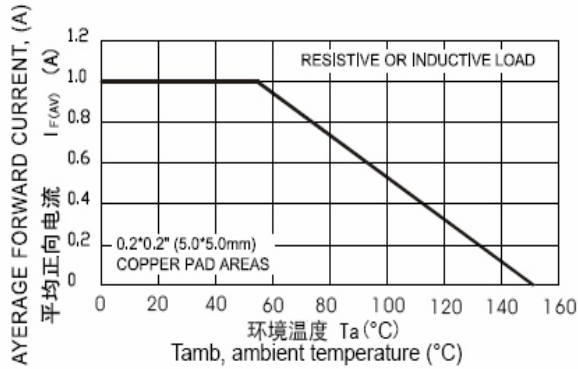


FIG. 2 - MAXIMUM NON REPEATITIVE PEAK FORWARD SURGE

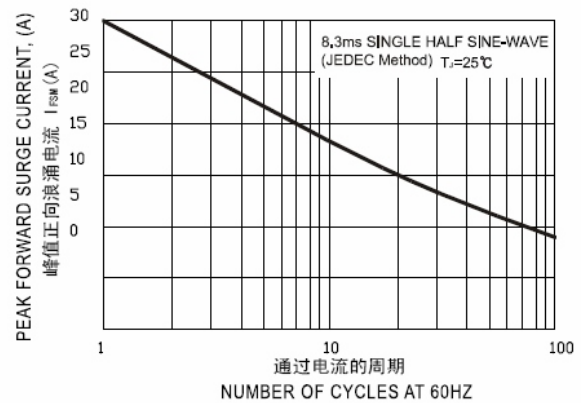


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

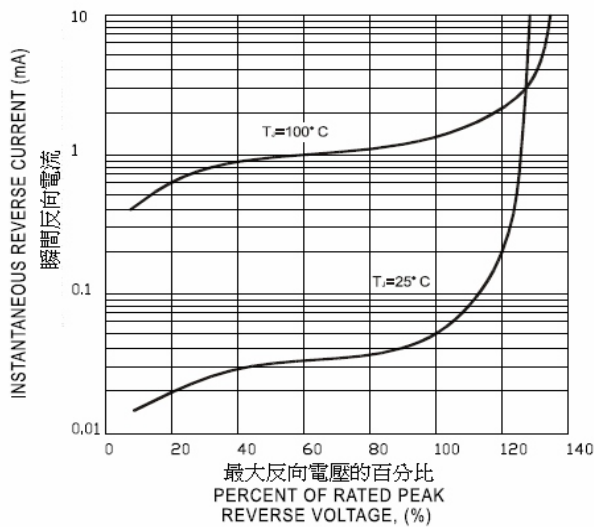


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

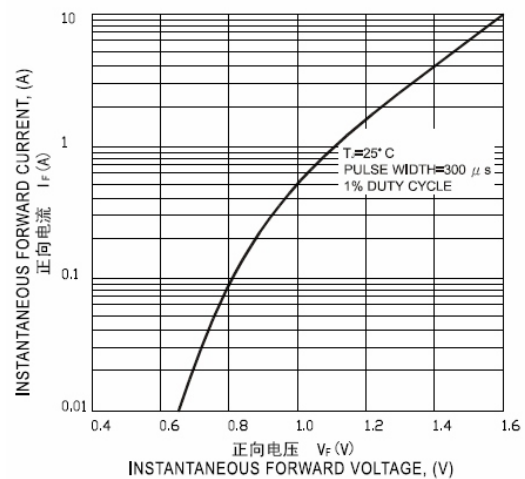


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

