

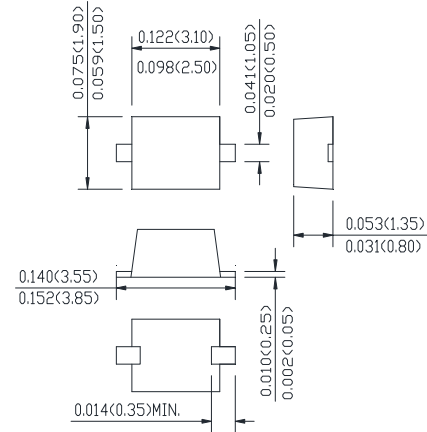
### Features

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O Utilizing Flame
- Retardant Epoxy Molding Compound.
- For surface mounted applications.
- Exceeds environmental standards of MIL-S-19500/228
- Low leakage current.

### Mechanical Data

- Case : Molded plastic, JEDEC SOD-123FL
- Terminals : Solder plated, solderable per MIL-STD-750,
- Method 2026
- Polarity : Indicated by cathode band
- Mounting Position : Any
- Weight : 0.04 gram

### SOD-123FL



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%.

Type Number	Symbols	A1	A2	A3	A4	A5	A6	A7	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_C=100^\circ C$	$I_{(AV)}$	1.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	25							Amp
Maximum Forward Voltage at 1.0A and $T_A=25^\circ C$	$V_F$	1.1							Volts
Maximum Reverse Current $T_A=25^\circ C$ at Rated DC Blocking Voltage $T_A=125^\circ C$	$I_R$	5.0 50							$\mu A$
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length@ $T_L=75^\circ C$		30							$\mu A$
Typical Junction Capacitance	$C_J$	15							pF
Typical Thermal Resistance	$R_{\theta JC}$	50							$^\circ C/W$
Operating and Storage Temperature Range	$T_J$ $T_{stg}$	-55 to +150							$^\circ C$

### RATINGS AND CHARACTERISTIC CURVES (A1 THRU A7)

FIG.1-TYPICAL FORWARD

CHARACTERISTICS

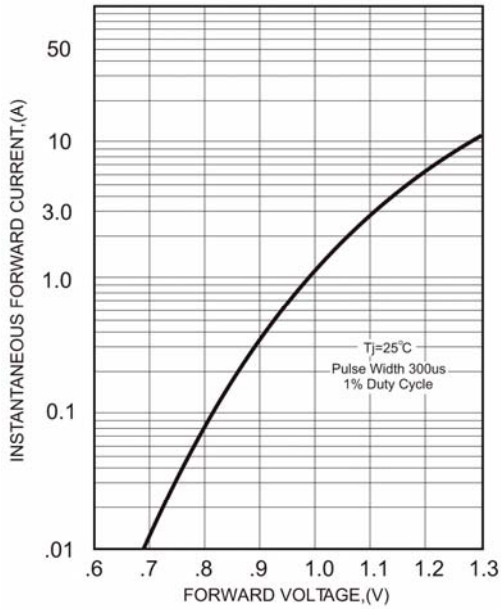


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

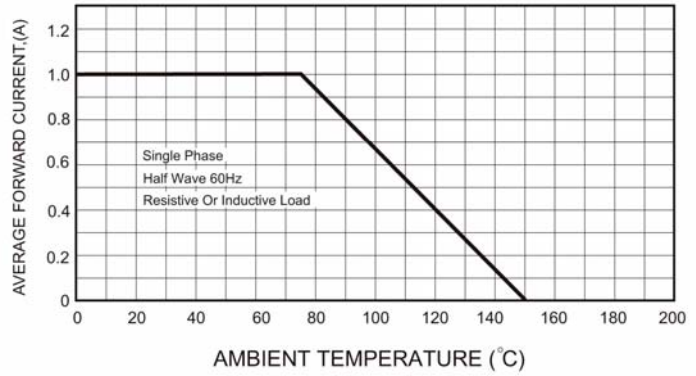


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

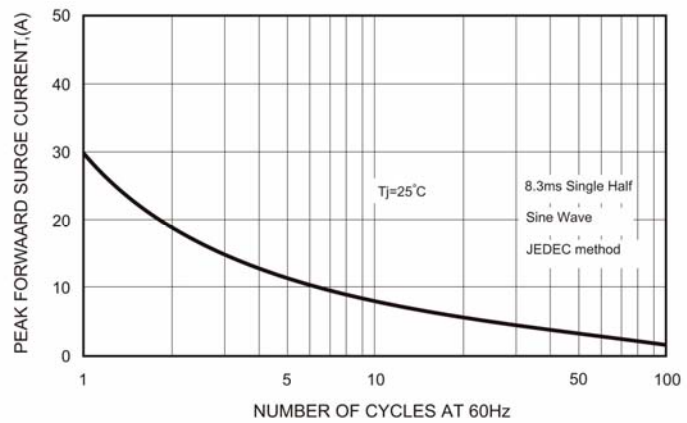


FIG.3 - TYPICAL REVERSE

CHARACTERISTICS

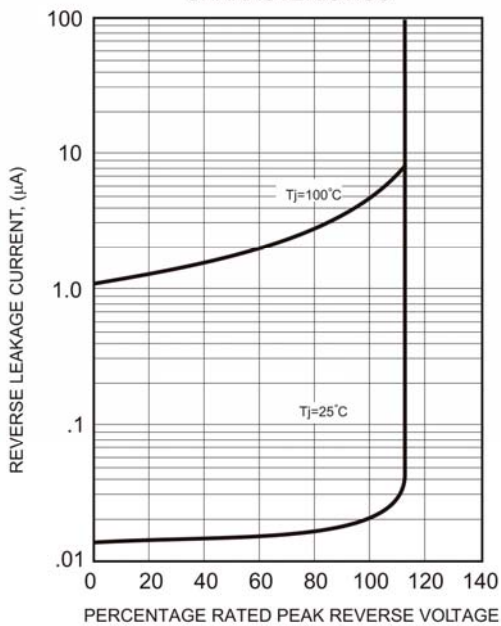


FIG.5-TYPICAL JUNCTION CAPACITANCE

