

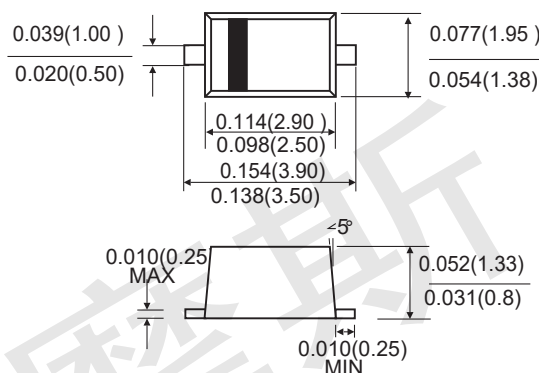
FEATURES

- 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

SOD-123FL



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 Numbe And Device Marking	Symbol	2A1	2A2	2A3	2A4	2A5	2A6	2A7	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}								
DC Blocking Voltage	V_R								
RMS Reverse Voltage	$V_R(RMS)$	35	70	140	280	420	560	800	V
Maximum Average Rectified Output Current @60Hz sine wave, Resistance load, T_A (Fig 1)	$I_{(AV)}$	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60							A
Maximum Forward Voltage at $I_{(AV)}$ and $T_A=25^\circ C$	V_{FM}	1.0							V
Peak Reverse Current @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 100^\circ C$	I_{RM}	10 500							μA
Typical Junction Capacitance (Note 1)	C_j	16							pF
Typical Thermal Resistance (Note 2) Between junction and ambient, On alumina substrate	$R_{\theta Ja}$	70							$^\circ C/W$
Typical Thermal Resistance (Note 2) Between junction and lead	$R_{\theta JL}$	30							$^\circ C/W$
Typical Thermal Resistance (Note 2) Between junction and lcase	$R_{\theta Jc}$	40							$^\circ C/W$
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150							$^\circ C$

Note:

1.Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

2.P.C.B. mounted with 0.2 X 0.2"(5.0 X 5.0mm)copper pad areas

*This product The above data sheet typical data meet the Mentioned standards,designers for reference only

Ordering Information (Example)

Prefered P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
SOD-123	F1	Approximate 0.0169	3000	30000	240000	7" reel
SOD-123F	F2	Approximate 0.0169	10000	30000	150000	13" reel
SOD-123L						

RATINGS AND CHARACTERISTIC CURVES

