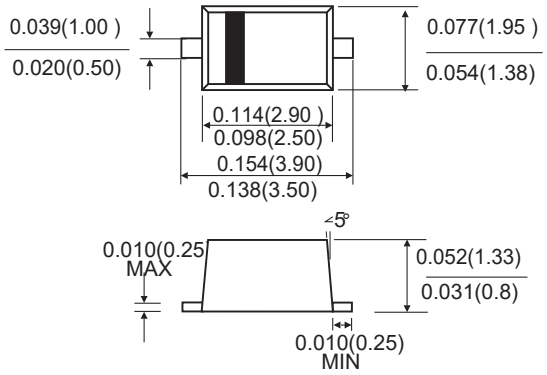
Silicon Rectifiers

A1 THRU A7 50 to 1000 V 1.0A

- 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.

SOD-123FL



Dimensions in inches and (millimeters)

Mechanical Data

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

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ 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	A1 S1A FM4001	A2 S1B FM4002	A3 S1D FM4003	A4 S1G FM4004	A5 S1J FM4005	A6 S1K FM4006	A7 S1M FM4007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	800	
Maximum Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (Fig 1)	$I_{(AV)}$	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30							A
Maximum Forward Voltage at $I_{(AV)}$ and T_A=25℃	V_{FM}	1.0							V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°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							°C/W
Typical Thermal Resistance (Note 2) Between junction and lead	$R_{\theta JL}$	30							°C/W
Typical Thermal Resistance (Note 2) Between junction and lcase	$R_{\theta Jc}$	40							°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150							°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

FIG.1: FORWARD CURRENT DERATING CURVE

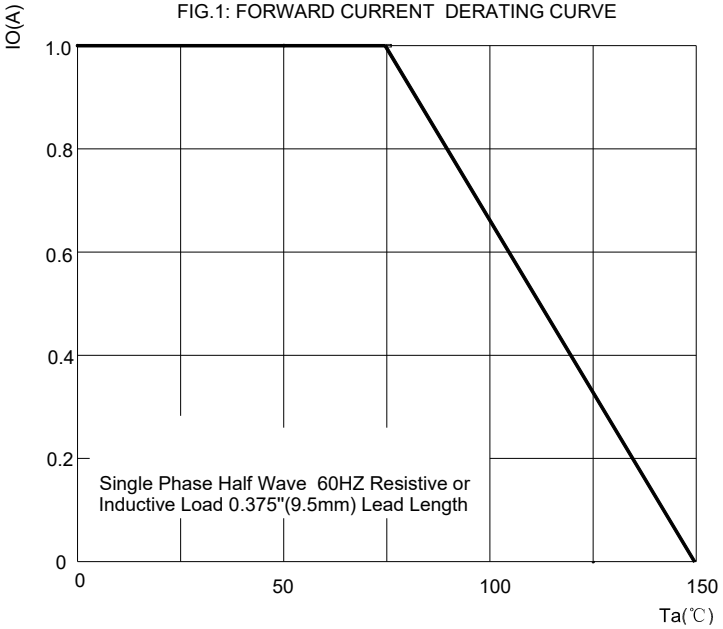


FIG.2:MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

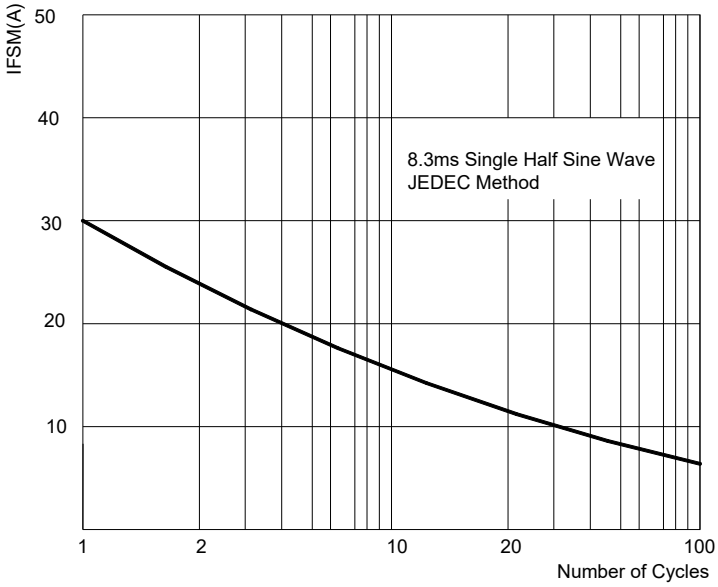


FIG.3: TYPICAL FORWARD CHARACTERISTICS

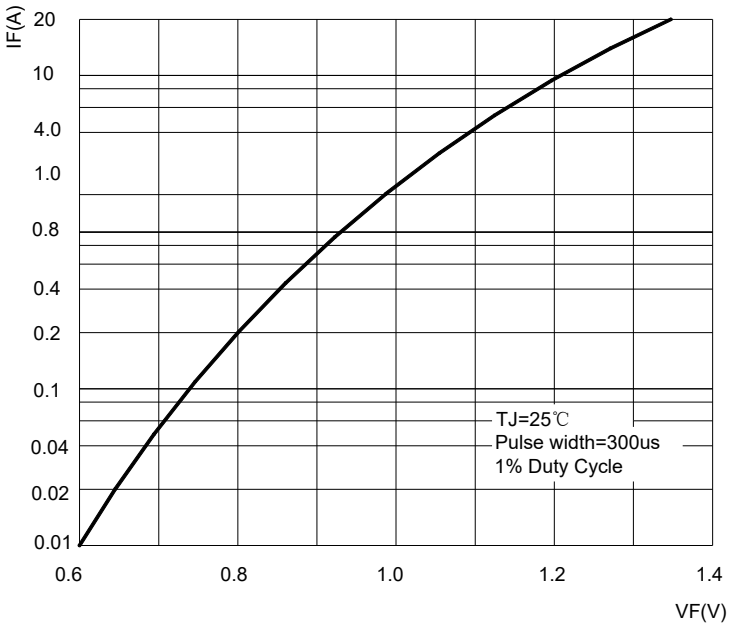
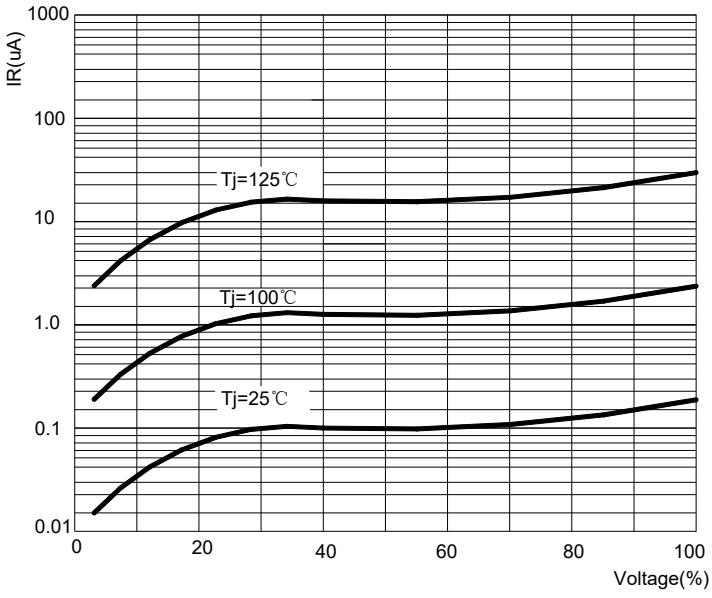


FIG.4:TYPICAL REVERSE CHARACTERISTICS



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