

A1 THRU A7 1.0AMP SURFACE MOUNT GLASS RECOVERY RECTIFIER

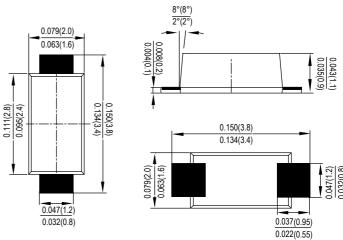
Features

- · For surface mounted application
- Low forward voltage drop
- High current capability
- · High reliability
- Classification Rating 94V-0

Mechanical Data

- Case: Molded plastic SOD-123FL
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- · Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number

SOD-123FL



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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	SYMBOL	A1	A2	A3	A4	A5	A6	A7	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T∟ =100 ℃	IF(AV)	1.0							А
Non-Repetitive Peak Forward Surge @T _{j=25} °C Current 8.3ms Single half sine-wave@T _{j=125} °C Superimposed On Rated Load (JEDEC Method)	C IFSM	30 24						A	
Non-Repetitive Peak Forward Surge @Tj=25 °C Current 1.0ms Single half sine-wave @Tj=125°C Superimposed On Rated Load (JEDEC Method)					60 48				A
10000 times of the wave surge current (time width 1ms, time interval 3s)	IFSM	22.5							А
Rating for fusing (t<8.3ms)	l ² t	3.74							A²s
Forward Voltage @IF=1.0A $@T_A = 25 ^{\circ}C$ @T_A = 125 $^{\circ}C$		1.0 0.9							V
Peak Reverse Current @TA =25°C		5.0							uA
At Rated DC Blocking Voltage @T _A =125°C	l _R	200							
Typical Junction Capacitance (Note 1)	CJ Type								рF
Typical Reverse Recovery Time (Note 2)	Trr	1.5							μs
Typical Thermal Resistance (Note 3)	Re jl Re jc Re ja	25 27 123							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to+150							°C

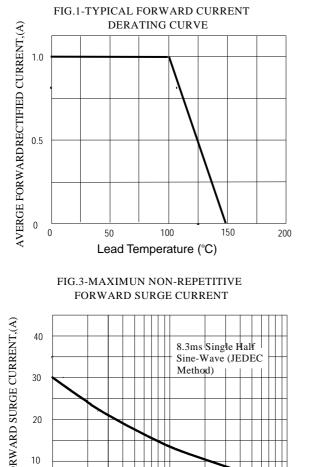
1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2. Reverse Recovery Test Conditions: I $_{F}$ =0.5A, I $_{R}$ =1.0A, I $_{RR}$ =0.25A

3. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.



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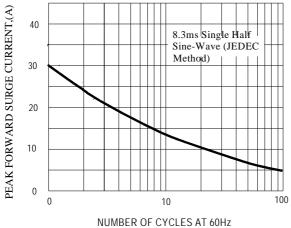
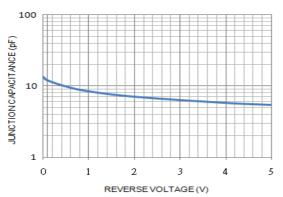
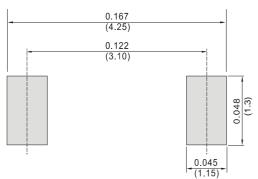
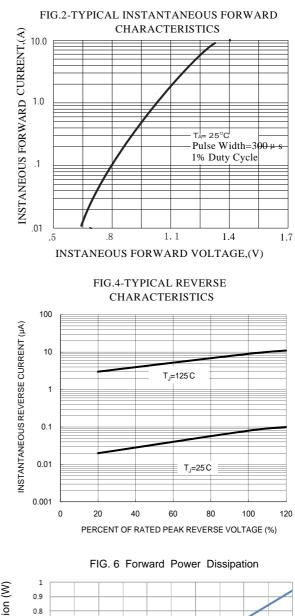


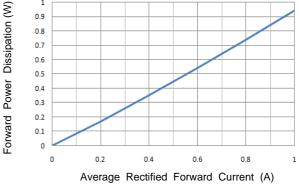
FIG. 5 TYPICAL JUNCTION CAPACITANCE











version:02



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