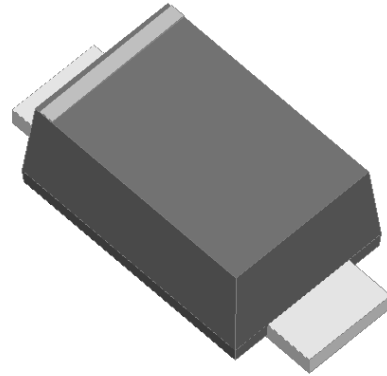




**Rectifier diode**  
**Reverse Voltage 50V-1000v**  
**Forward current-1A**

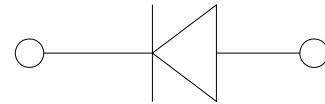
**Features**

- Glass passivated chip
- High surge current capability
- Ideal for surface mounted applications
- Low power loss, high efficiency
- Plastic Case Material has UL Flammability



**Mechanical Data**

- Package: SOD123FL
- Terminals: Tin Plated leads, solderable per Mil-STD-750 Method 2026
- Polarity: As marked
- Molding compound meets UL 94 V-0 flammability rating, ROHS-compliant



**Maximum Ratings (Ta=25°C Unless otherwise specified)**

Type Number	SYMBOL	A1	A2	A3	A4	A5	A6	A7	Umit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at TL = 100 °C	$I_{O(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	30.0							A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		60.0							A
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	$I^2t$	3.7							A <sup>2</sup> S
Maximum Forward Voltage at 1.0A DC	$V_{FM}$	1.1							V
Maximum Reverse Current TA = 25°C	IR	5.0							uA
at Rated DC Blocking Voltage TA = 100°C		100.0							
Typical Junction Capacitance	CJ	17.0							pF
Typical Thermal Resistance Between junction and	$R_{QJa}$	75.0							°C/W
Operating Junction Temperature Range	$T_J$	-55to+150							°C
Storage Temperature Range	$T_{STG}$	-55to+150							°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

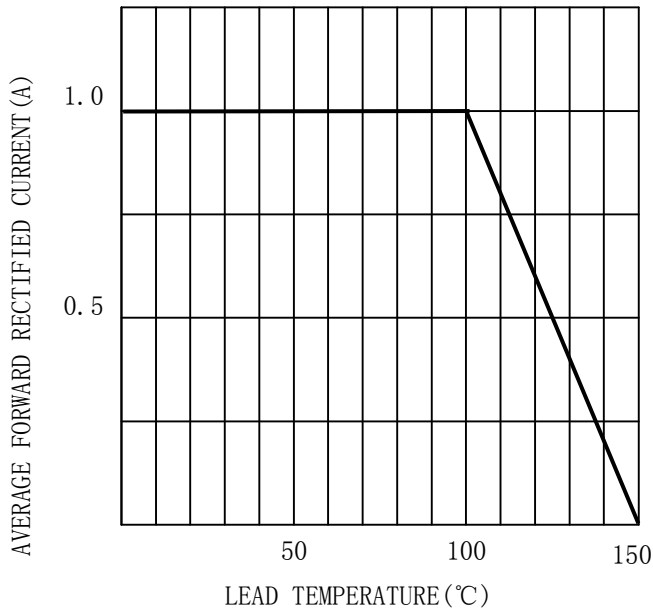


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

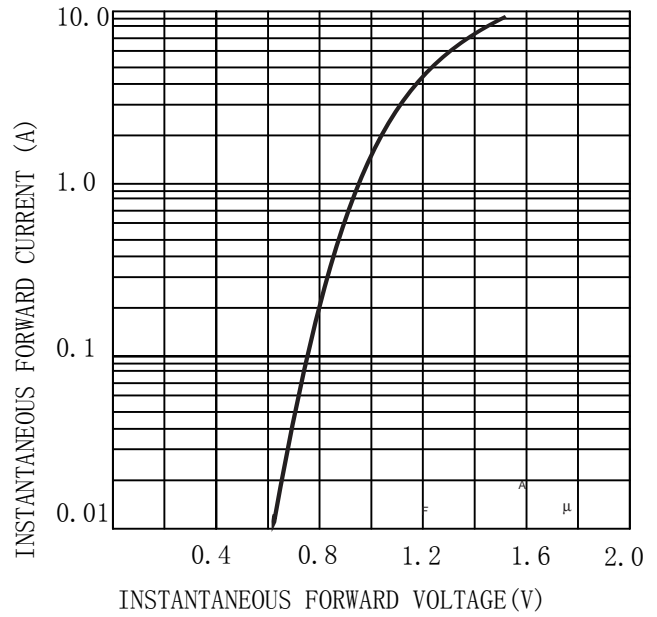


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

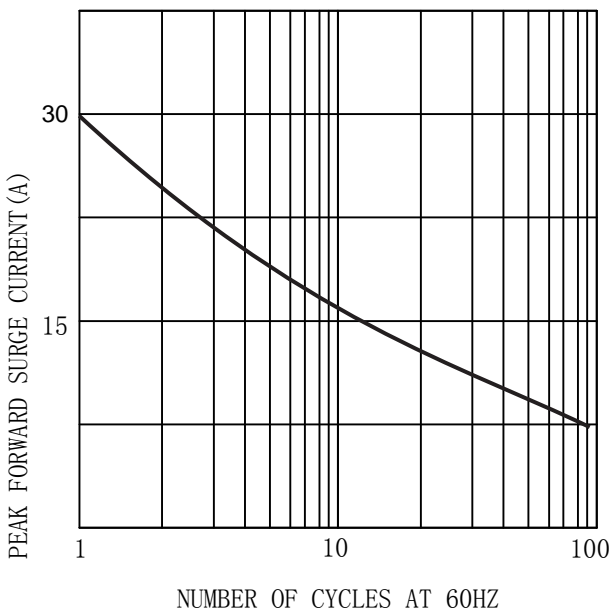
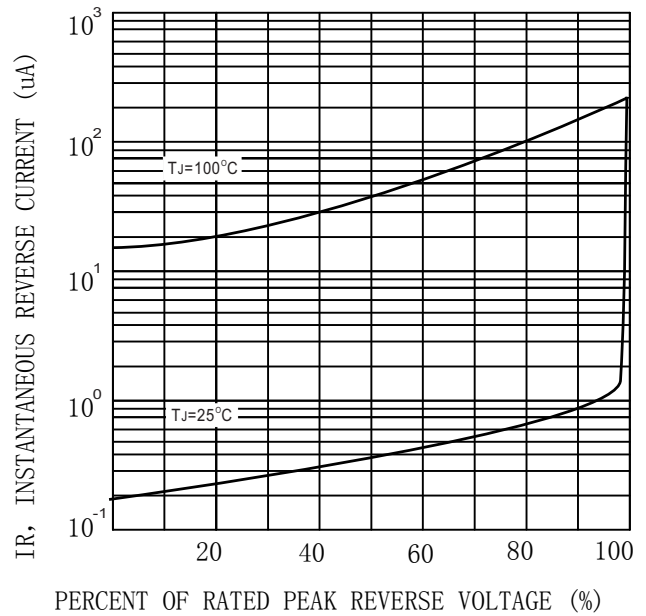


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION

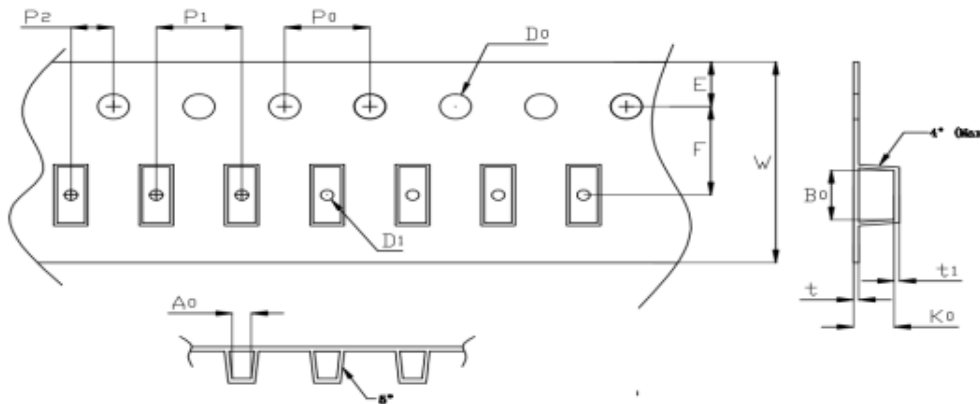


- = Logo
- \*\*\*\* = Date Code Marking
- A\* = Marking Code

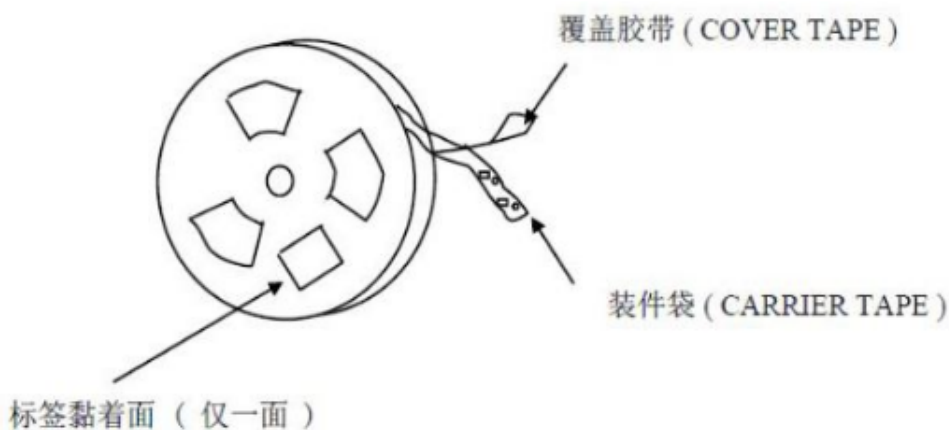
Print according to customer request

## PACKING REQUIRMENTS

- Carrier tape packing



Specifications	Carrier tape type	Ao	Bo	Ko	Po	W	t	Explain
SOD-123FL	Anti-static	1.95± 0.10	3.95± 0.10	1.35± 0.10	4.00± 0.10	8.0± 0.10	0.23± 0.05	

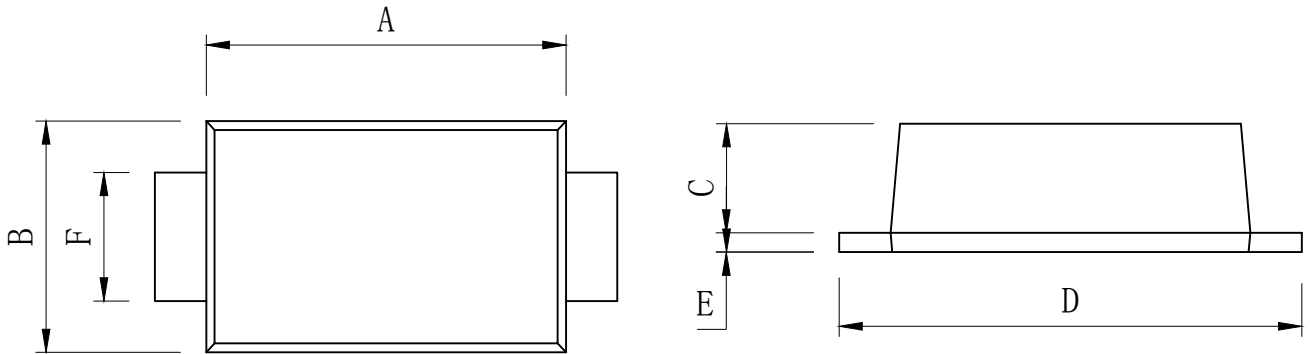


DEVICE TYPE	Tape width	7" Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
SOD-123FL	8mm	3000	80	240000



Outline Dimensions

SOD123FL



SOD123FL				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.10	0.12	2.5	3
B	0.06	0.08	1.5	2
C	0.03	0.06	0.7	1.5
D	0.12	0.16	3	4
E	/	0.01	/	0.3
F	0.02	0.06	0.5	1.5



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