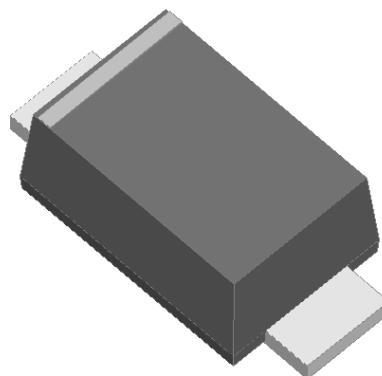




Fast Switching Diode

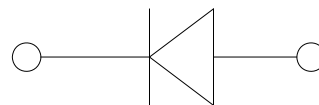
Features

Fast Switching Device (TRR <4.0 nS)
Power Dissipation of 500mW
High Stability and High Reliability
Low reverse leakage
Plastic Case Material has UL Flammability



Mechanical Data

Package: SOD123-FL
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	1N4148WS/T4	Unit
Peak Reverse Voltage	V_{RRM}	100	V
Average Rectified Current	I_o	200.0	mA
Power Dissipation	P_{tot}	500.0	mW
Peak Forward Surge Current @1ms; TA=25°C	IFSM	2.0	A
Maximum Forward Voltage at 200mA	VF	1.25	V
Maximum Reverse Current VR=75	IR	5.0	uA
VR=20V Tj=150°C		50.0	
Maximum reverse recovery time.	Trr	4.0	ns
Typical Thermal Resistance Between junction and ambient	R_{QJa}	250.0	°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

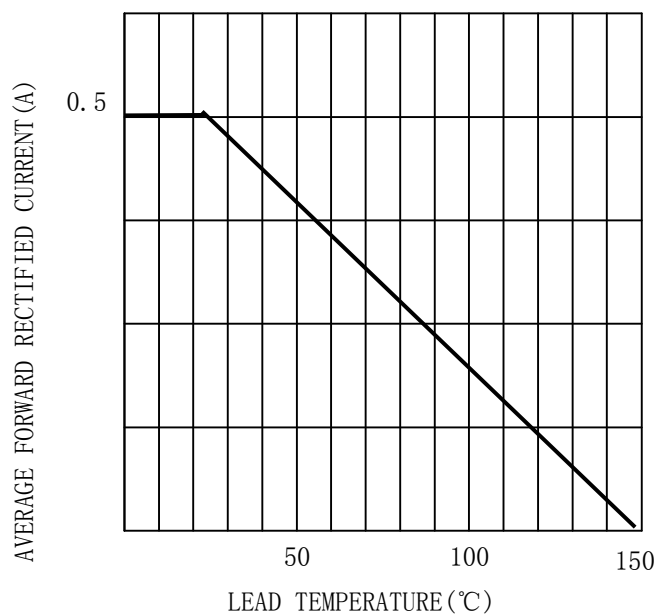


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

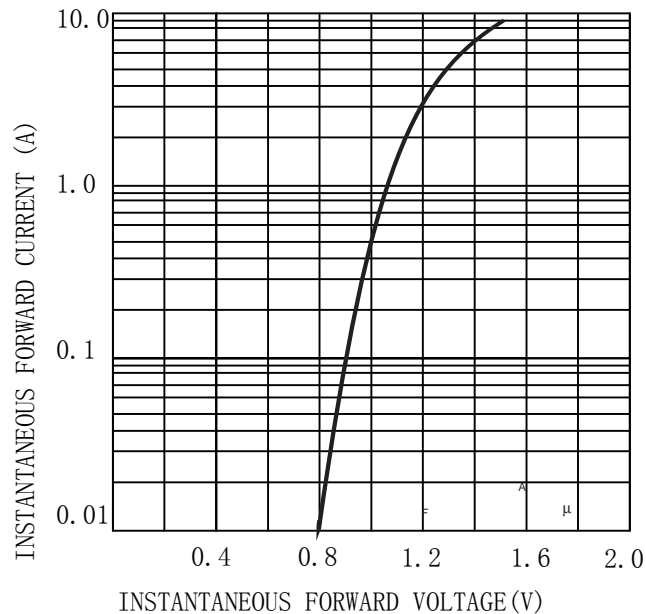


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

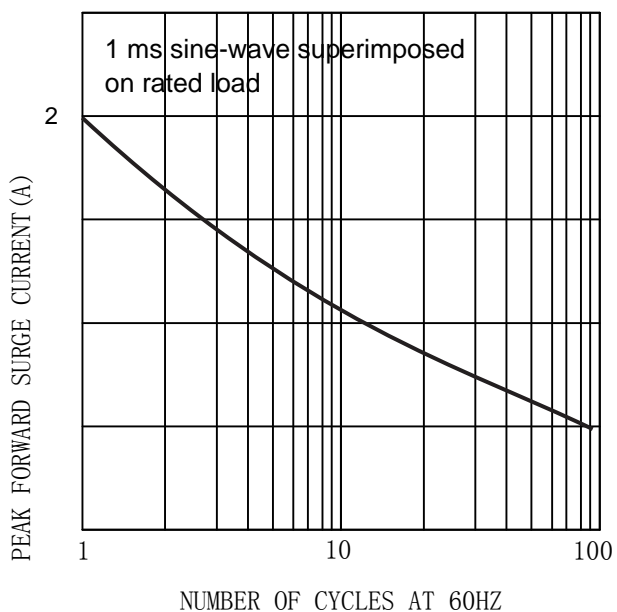
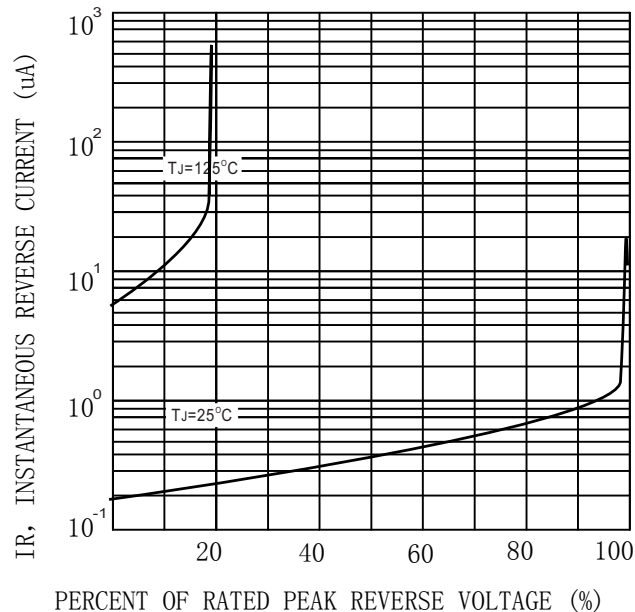



FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



 = Logo

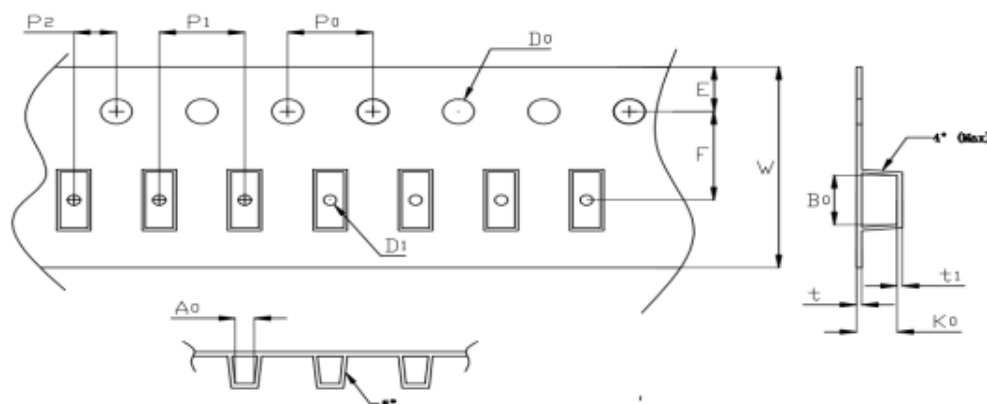
**** = Date Code Marking

E1* = Marking Code

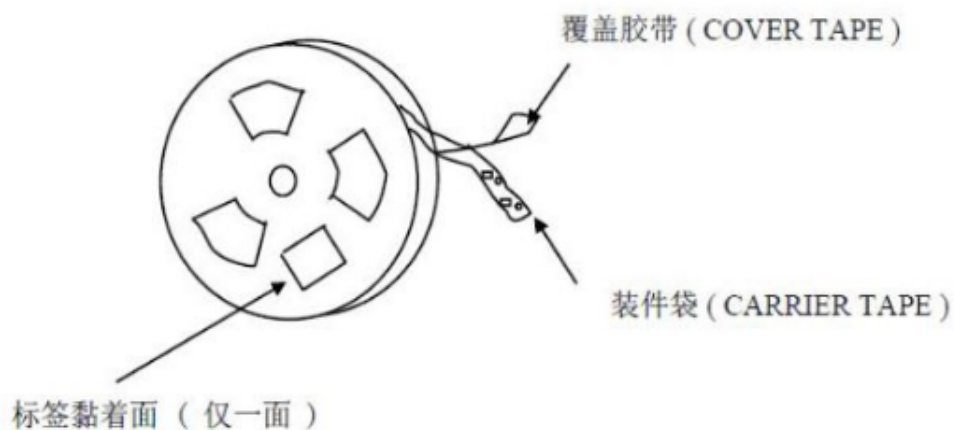
Print according to customer request

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	

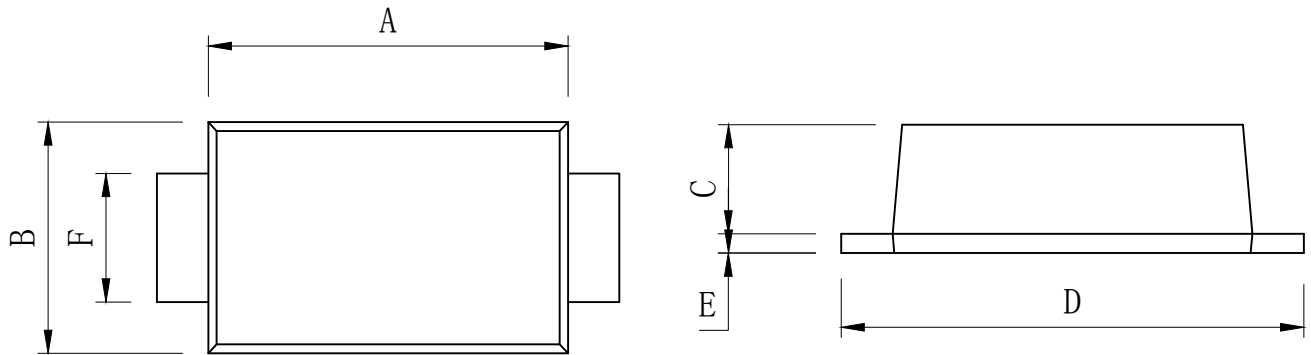


DEVICE TYPE	Tape width	7" Reel		
		Q'TY/REEL (pcs)	BOX/CARTOON	Q'TY/REEL (pcs)
SOD-123FL	8mm	3000	80	240000



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



四川旭茂微科技有限公司

Sichuan Xu Mao Micro Technology Co., Ltd

1N4148WS/T4

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