

Rectifier diode Reverse Voltage50V-1000v Forward current-1A

Features

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

Mechanical Data

Package: SOD123FL

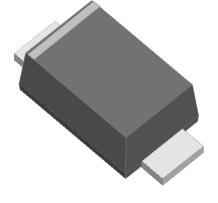
Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25℃ Unless otherwise specified)

Type Number	SYMBOL	A1	A2	A3	A4	A5	A6	A7	Umit
Maximum Recurrent Peak Reverse Voltage		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 ℃	IO _(AV)	1.0				Α			
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	30.0				Α			
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	ii owi	60.0				Α			
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	3.7					A ² S		
Maximum Forward Voltage at 1.0A DC	V_{FM}	1.1				٧			
Maximum Reverse Current TA = 25℃	ID.	5.0							
at Rated DC Blocking Voltage TA = 100 ℃		100.0							uA
Typical Junction Capacitance		17.0						pF	
Typical Thermal Resistance Between junction and		75.0						°C/W	
Operating Junction Temperature Range	T_J	—55to+150			$^{\circ}$				
Storage Temperature Range	T _{STG}	—55to+150						${\mathbb C}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

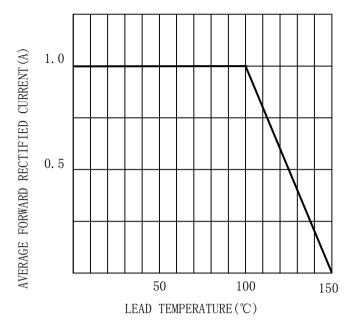


FIG. 2TYPICAL FORWARD CHARACTERISTICS

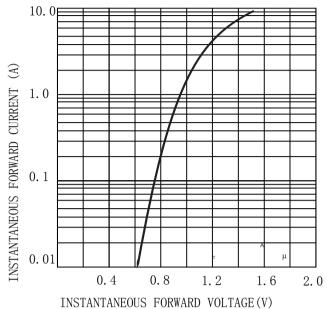


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

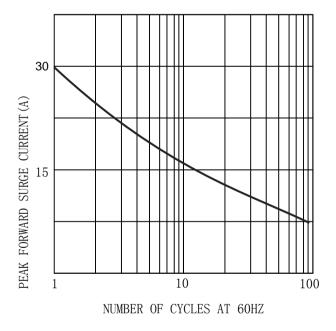
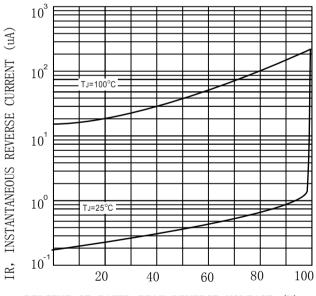


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



🤝 = Logo

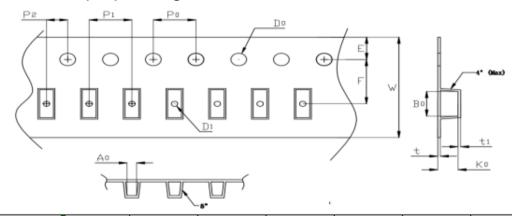
**** = Date Code Marking

A* = Marking Code

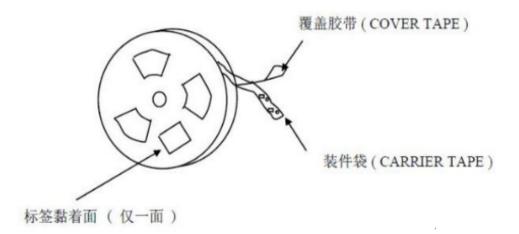
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



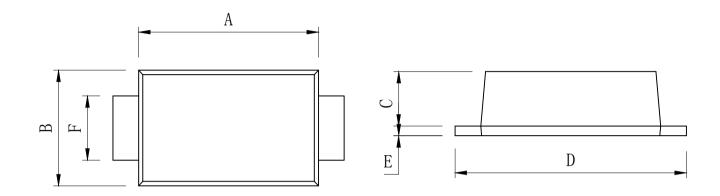
1	Specificati	Carrier	۸۵	Во	Ко	Po	w		Exiplain
L	ons	tape type	AU	ВО	KU	FU	VV		Exiplain
S	OD-123FL	Anti-static	1.95± 0.10	3.95± 0.10	1.35± 0.10	4.00 ± 0.10	8.0 ± 0.10	0.23 ± 0.05	



DEVICE	Tape width	7"Reel					
TYPE		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		
В	0.06	0.08	1.5	2		
С	0.03	0.06	0.7	1.5		
D	0. 12	0.16	3	4		
Е	/	0.01	/	0.3		
F	0.02	0.06	0.5	1.5		

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