

Fast recovery 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: SOD-123FL

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)

Maximum Ratings (14 20 C offices otherwise opeometr)								
SYMBOL	F1A	F1B	F1D	F1G	F1J	F1K	F1M	Umit
V_{RRM}	50	100	200	400	600	800	1000	٧
V _{RMS}	35	70	140	280	420	560	700	V
V _{DC}	50	100	200	400	600	800	1000	٧
IO _(AV)	1.0				Α			
IFSM	25.0				Α			
ii Givi	50.0				Α			
I ² t	1.7			A ² S				
V_{FM}	1.3				٧			
D.	5.0			uA				
ir.	100.0			u <u></u>				
Trr		15	0.0		250.0	50	0.0	ns
R_{QJa}	75.0		°C/W					
T _J	—55to+150				$^{\circ}$			
T _{STG}	—55to+150			$^{\circ}$				
	SYMBOL V _{RRM} V _{RMS} V _{DC} IO _(AV) IFSM I ² t V _{FM} IR Trr R _{QJa} T _J	SYMBOL F1A V _{RRM} 50 V _{RMS} 35 V _{DC} 50 IO _(AV) IFSM I ² t V _{FM} IR Trr R _{Q,Ja} T _J	SYMBOL F1A F1B V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 IO _(AV) IFSM I ² t V _{FM} IR Trr 15 R _{Q,Ja} T _J	SYMBOL F1A F1B F1D V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 IO _(AV) IFSM IFSM IFSM IR Trr 150.0 R _{Q,Ja} T _J —	SYMBOL F1A F1B F1D F1G V _{RMM} 50 100 200 400 V _{RMS} 35 70 140 280 V _{DC} 50 100 200 400 IO _(AV) 1.0 25.0 IFSM 50.0 50.0 I* 1.3 5.0 IR 100.0 100.0 Trr 150.0 75.0 R _{Q,Ja} 75.0 -55to+15	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	SYMBOL F1A F1B F1D F1G F1J F1K V _{RMS} 50 100 200 400 600 800 V _{RMS} 35 70 140 280 420 560 V _{DC} 50 100 200 400 600 800 IO _(AV) 1.0 25.0 50.0 50.0 1.7 1.7 1.3	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

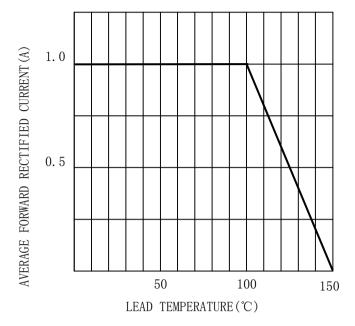


FIG. 2TYPICAL FORWARD CHARACTERISTICS

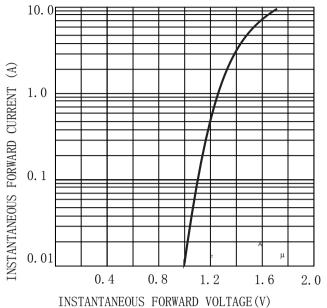


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

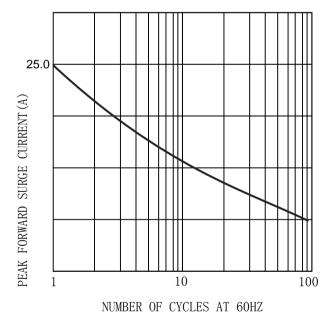
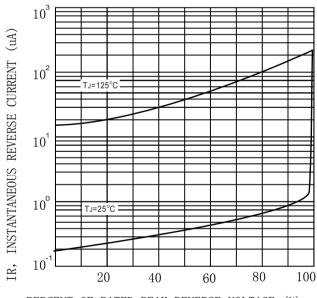


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



🤝 = Logo

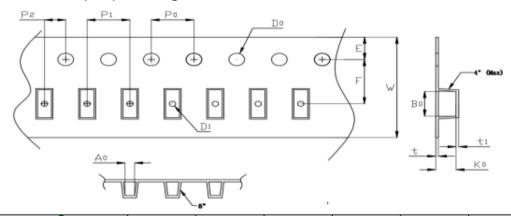
**** = Date Code Marking

F** = Marking Code

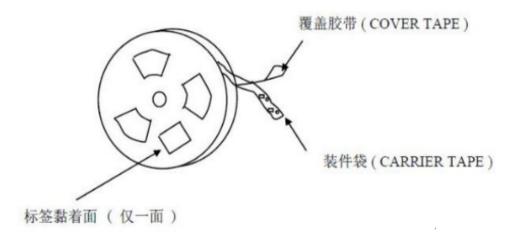
Print according to customer request

PACKING REQUIRMENTS

· Carrier tape packing



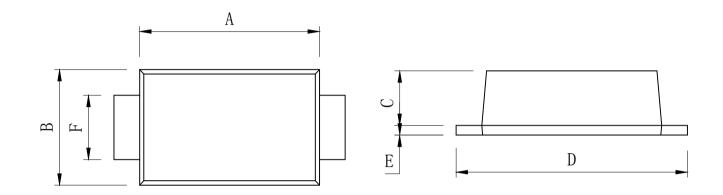
	Specificati	Carrier	۸۵	Во	Ко	Po	w		Exiplain
L	ons	tape type	AU	ВО	KU	FU	VV		Exiplain
S	OD-123FL	Anti-static	1.95± 0.10	3.95± 0.10	1.35± 0.10	4.00 ± 0.10	8.0 ± 0.10	0.23 ± 0.05	



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

Outline Dimensions

SOD-123FL



SOD-123FL						
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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