Express recovery diode Reverse Voltage50V-600v 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

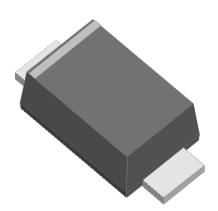
Terminals:Tin Plated leads, solderable per

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)

T 11	0)/14001	-11	E45	E45	E40	-41	
Type Number	SYMBOL	E1A	E1B	E1D	E1G	E1J	Umit
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current at TL = 100 $^{\circ}$	IO _(AV)	1.0				Α	
Peak Forward Surge Current 3.3ms Single half-sine-wave superimposed on rated 25.0 25.0 25.0 25.0				Α			
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	50.0			Α			
Current squared time @1ms≤t8.3≤ms Tj=25℃, Rating of per diode	I ² t	2.6		A ² S			
Maximum Forward Voltage at 1.0A DC	V_{FM}	V _{FM} 0.95		1.3	1.7	V	
Maximum Reverse Current TA = 25° 5.0					uA		
at Rated DC Blocking Voltage TA = 100 ℃	IR	100.0		uA			
Maximum reverse recovery time	Trr	35.0				ns	
Typical Thermal Resistance Between junction and		75.0				°C/W	
Operating Junction Temperature Range	R _{QJa}	—55to+150				$^{\circ}$	
Storage Temperature Range	T _{STG}	—55to+150			$^{\circ}$		

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

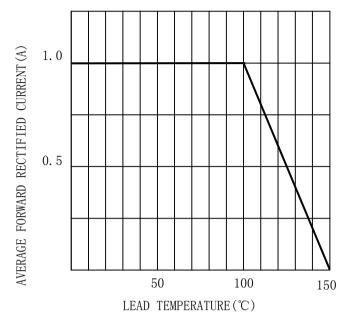


FIG. 2TYPICAL FORWARD CHARACTERISTICS

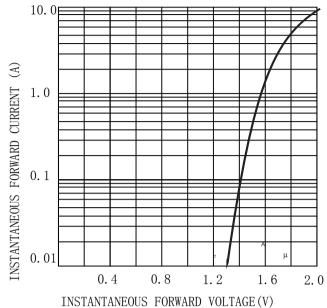


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

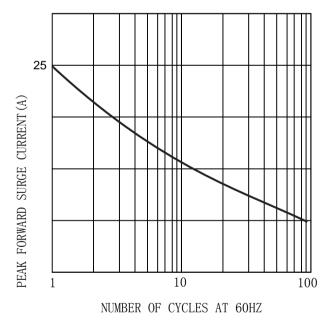
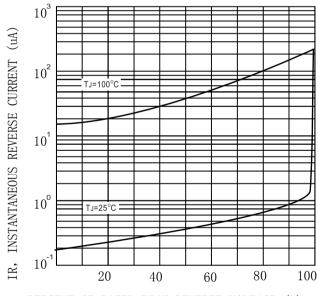


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



= Logo

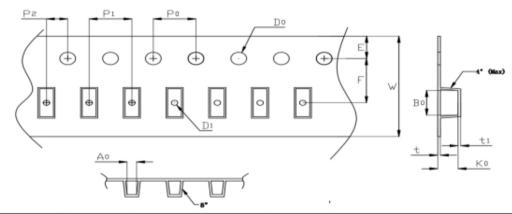
**** = Date Code Marking

E1* = Marking Code

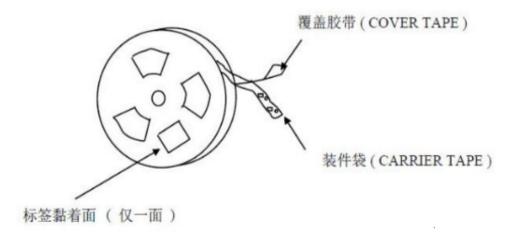
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



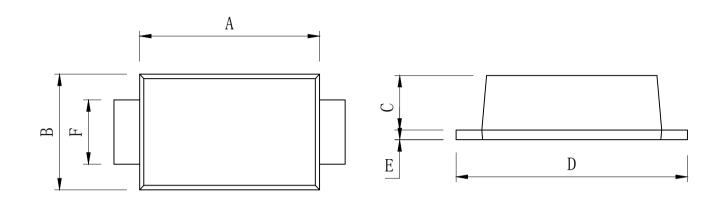
Specificati	Carrier	Ao	Во	Ко	Po	w	+	Exiplain
ons	tape type	AU	ВО	INU	FU	**	·	EXIPIAIT
SOD-123FL	Anti-static	1.95± 0.10	3.95 ± 0.10	1.35 ± 0.10	4.00 ± 0.10	8.0 ± 0.10	0.23 ± 0.05	



DEVICE Tape		7"Reel				
TYPE	width	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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