

Ultrafast recovery 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)

Time Nimekon	SYMBOL	U1							
Type Number		Α	В	D	G	J	K	М	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	٧
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		25.0						Α	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	IFSM	50.0					Α		
Current squared time @1ms≤t8.3≤ms Tj=25℃, Rating of per diode	l ² t	2.6			A ² S				
Maximum Forward Voltage at 1.0A DC	V_{FM}		1.0		1.3		1.7		٧
Maximum Reverse Current TA = 25° C	IR	5.0			uA				
at Rated DC Blocking Voltage TA = 100 ℃	IR	100.0							
Maximum reverse recovery time	Trr		50.0 75.0			ns			
Typical Junction Capacitance	CJ	17.0						pF	
Typical Thermal Resistance Between junction and	R_{QJa}	75.0						°C/W	
Operating Junction Temperature Range		—55to+150						$^{\circ}$	
Storage Temperature Range	T _{STG}	—55to+150					$^{\circ}$		

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

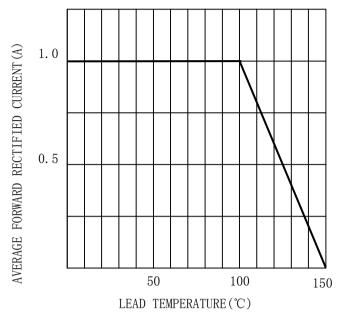


FIG. 2TYPICAL FORWARD CHARACTERISTICS

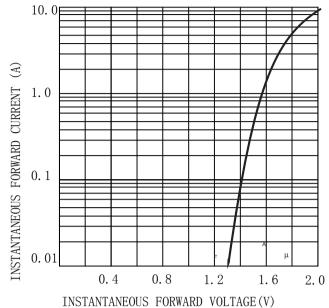


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

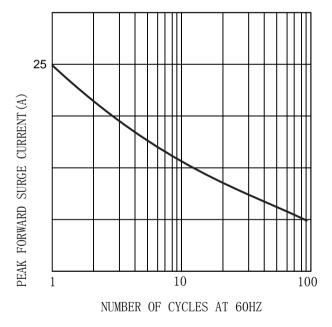
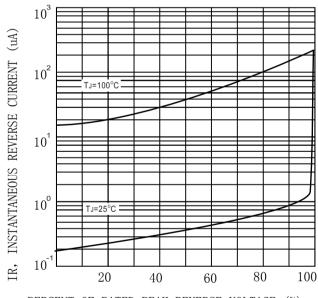


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



🤝 = Logo

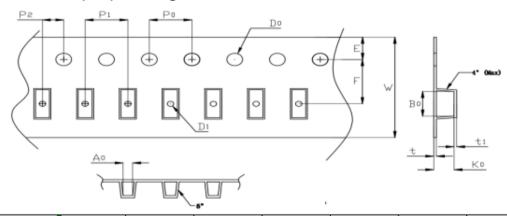
**** = Date Code Marking

U1* = Marking Code

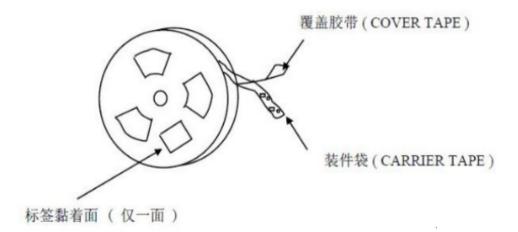
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



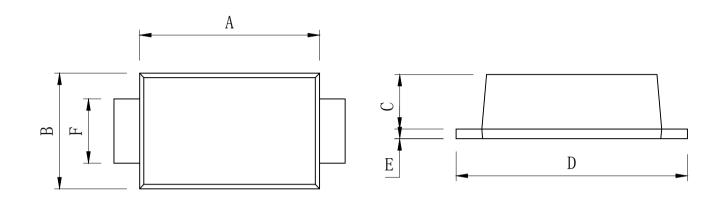
Specificati ons	Carrier tape type	Ao	Во	Ko	Po	w	t	Exiplain
SOD-123FL	Anti-static	1.95± 0.10	3.95 ± 0.10	1.35± 0.10	4.00 ± 0.10	8.0± 0.10	0.23 ± 0.05	



DEVICE	Tape 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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NTE5827 NTE5828 NTE5911 NTE5915 NTE6104 NTE6163 NTE6164 NTE6165 NTE6364 TSD3G SET130312 NRVUS110VT3G

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