

Schottky Diodes Reverse Voltage-40to200v Forward current-1A

Features

Schottky chip
Ldeal for surface mounted applications
Low forward voltage drop,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^o Unless otherwise specified)

Type Number	SYMBOL	K120	Umit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	140	V
Maximum DC Blocking Voltage	V _{DC}	200	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	20.0	А
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	II OW	40.0	А
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	1.7	A ² S
Maximum Forward Voltage at 1.0A DC	V _{FM}	0.92	V
Maximum Reverse Current TA = 25 ℃	ID	0.05	mA
at Rated DC Blocking Voltage TA = 100 ℃	IR -	5	mA
Typical Thermal Resistance	R _{QJA}	75.0	°C/W
Operating Junction Temperature Range	T _J	—55to+150	$^{\circ}$
Storage Temperature Range	T _{STG}	—55to+150	$^{\circ}$

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

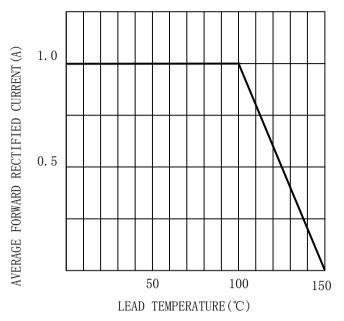


FIG. 2TYPICAL FORWARD CHARACTERISTICS

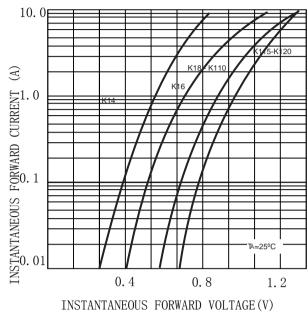


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

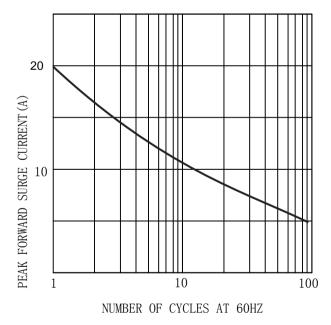
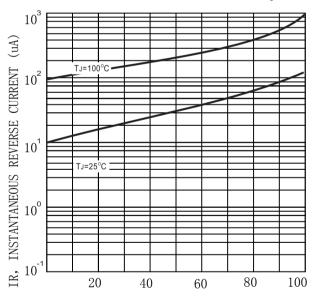


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION



= Logo

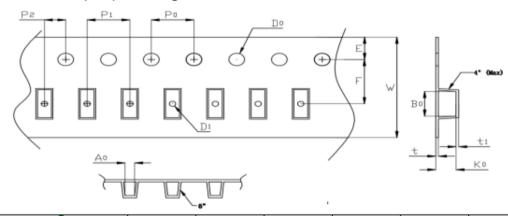
**** = Date Code Marking

K** = Marking Code

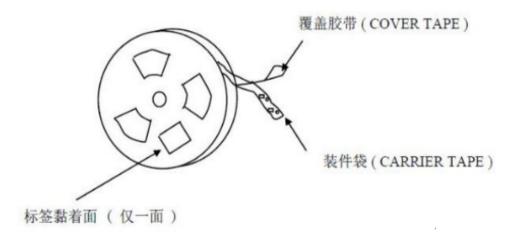
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



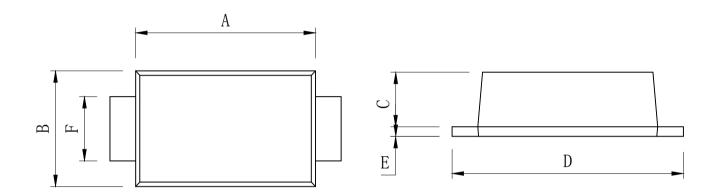
Specificati ons	Carrier tape type	Ao	Во	Ko	Po	w	t	Exiplain	
SOD-123FL	Anti-static	1.95± 0.10	3.95± 0.10	1.35± 0.10	4.00 ± 0.10	8.0± 0.10	0.23± 0.05		



DEVICE TYPE	Tape width	7"Reel			
		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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