



Type Number	SYMBOL	U1							
		A	B	D	G	J	K	M	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	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	I _{O(AV)}	1.0							A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	25.0							A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃		50.0							A
Current squared time @1ms≤t8.3≤ms Tj=25℃ , Rating of per diode	I²t	2.6							A²S
Maximum Forward Voltage at 1.0A DC	V _{FM}	1.0			1.3	1.7			V
Maximum Reverse Current TA = 25℃	IR	5.0							uA
at Rated DC Blocking Voltage TA = 125℃		100.0							
Maximum reverse recovery time	Trr	50.0				75.0			ns
Typical Thermal Resistance Between junction and ambient	RQJa	75.0							℃/W
Operating Junction Temperature Range	TJ	—55to+150							℃
Storage Temperature Range	TSTG	—55to+150							℃



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

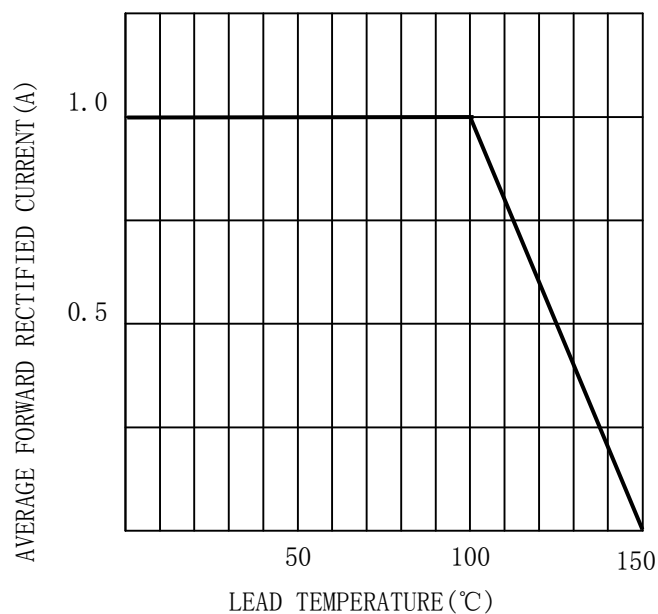


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

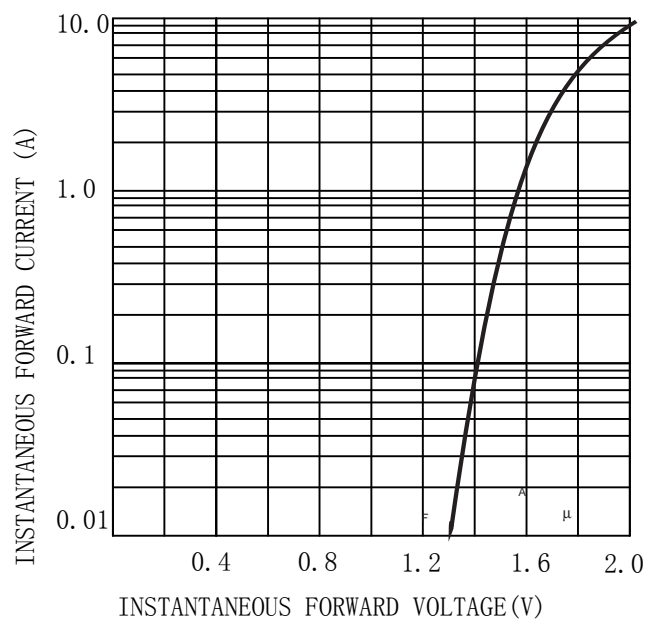


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

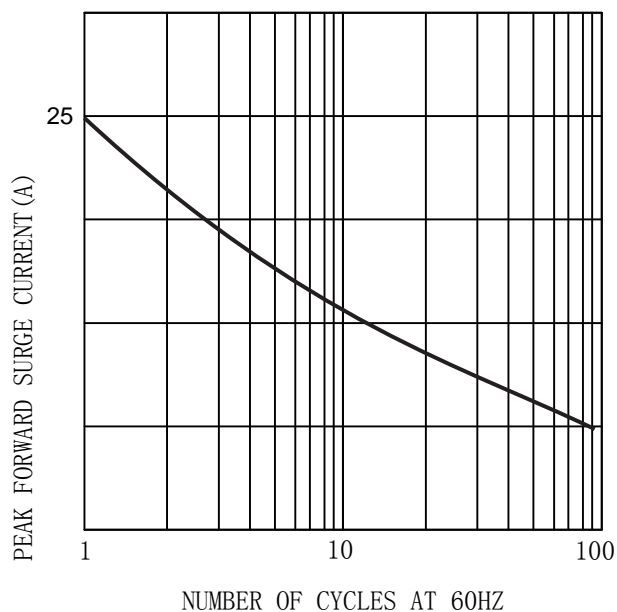
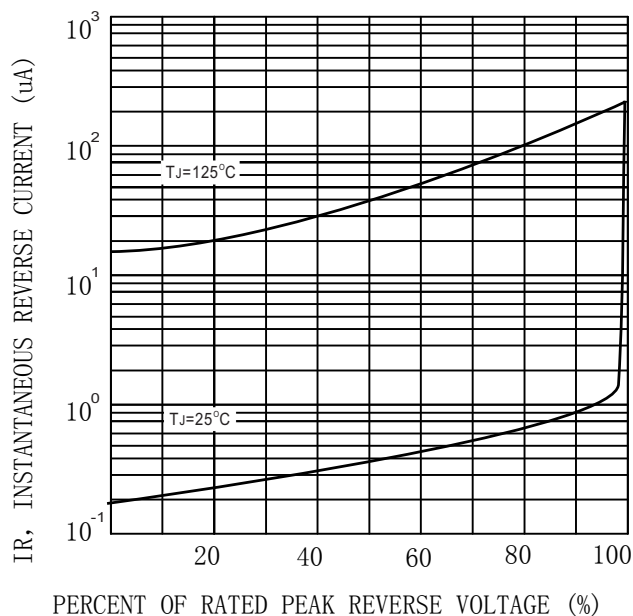



FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



 = Logo

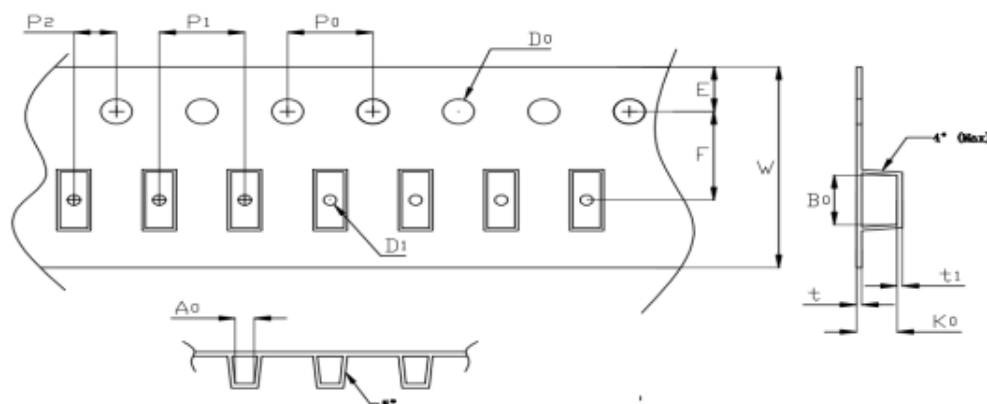
**** = Date Code Marking

U1* = Marking Code

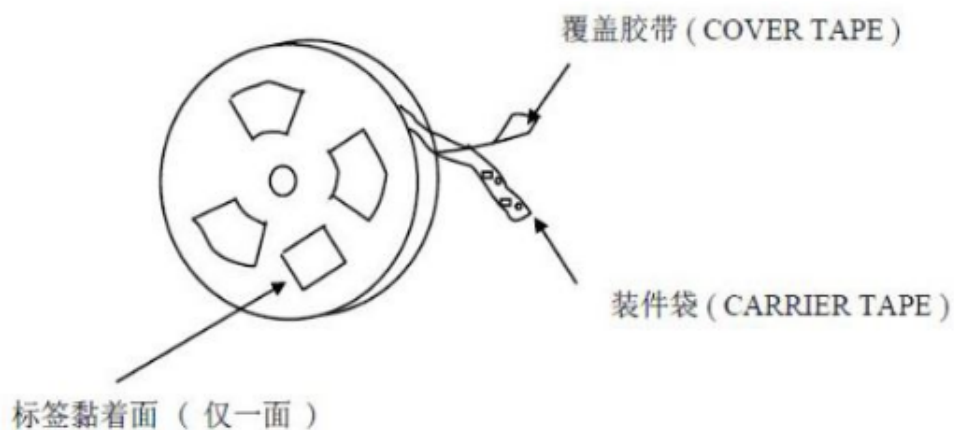
Print according to customer request

PACKING REQUIRMENTS

• Carrier tape packing



Specifications	Carrier tape type	Ao	Bo	Ko	Po	W	t	Explain
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	

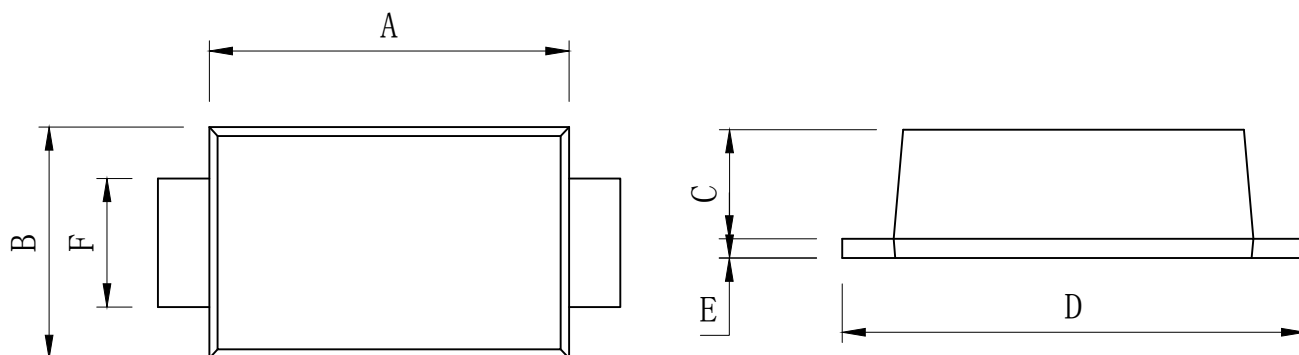


DEVICE TYPE	Tape width	7" Reel		
		Q'TY/REEL (pcs)	BOX/CARTON	Q'TY/REEL (pcs)
SOD-123FL	8mm	3000	80	240000



Outline Dimensions

SOD-123FL



SOD-123FL				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.10	0.12	2.5	3
B	0.06	0.08	1.5	2
C	0.03	0.06	0.7	1.5
D	0.12	0.16	3	4
E	/	0.01	/	0.3
F	0.02	0.06	0.5	1.5



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