

/ Descriptions


 SOD-123FL /x ož
 Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 20 to 200 V, Forward Current: 1.0A,
 SOD-123FL thin package。

/ Features





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 Low power loss, high efficiency, High forward surge current capability, For use in low voltage, high
 frequency inverters, and polarity protection applications, For surface mounted applications. Halogen
 free product。

/ Applications


 General purpose.

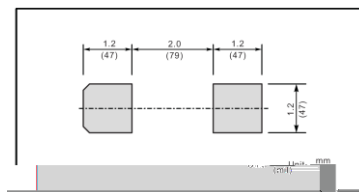
/ Equivalent Circuit



/ Pinning



The recommended mounting pad size



/ Marking

 See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

① Parameter	Z. Symbol	f Rating								② Unit
		DS12W	DS14W	DS16W	DS18W	DS110W	DS112W	DS115W	DS120W	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F (AV)}	1.0								A
Peak Forward Surge Current,8.3ms Single Half ine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	40				30				A
Typical Junction Capacitance ¹	C _i	110		80						pF
Typical Thermal Resistance ²⁾	R _{θ A}	115								°C/W
Operating Junction Temperature Range	T _j	-55~+125								°C
Storage Temperature Range	T _{stg}	-55~+150								°C

Note:

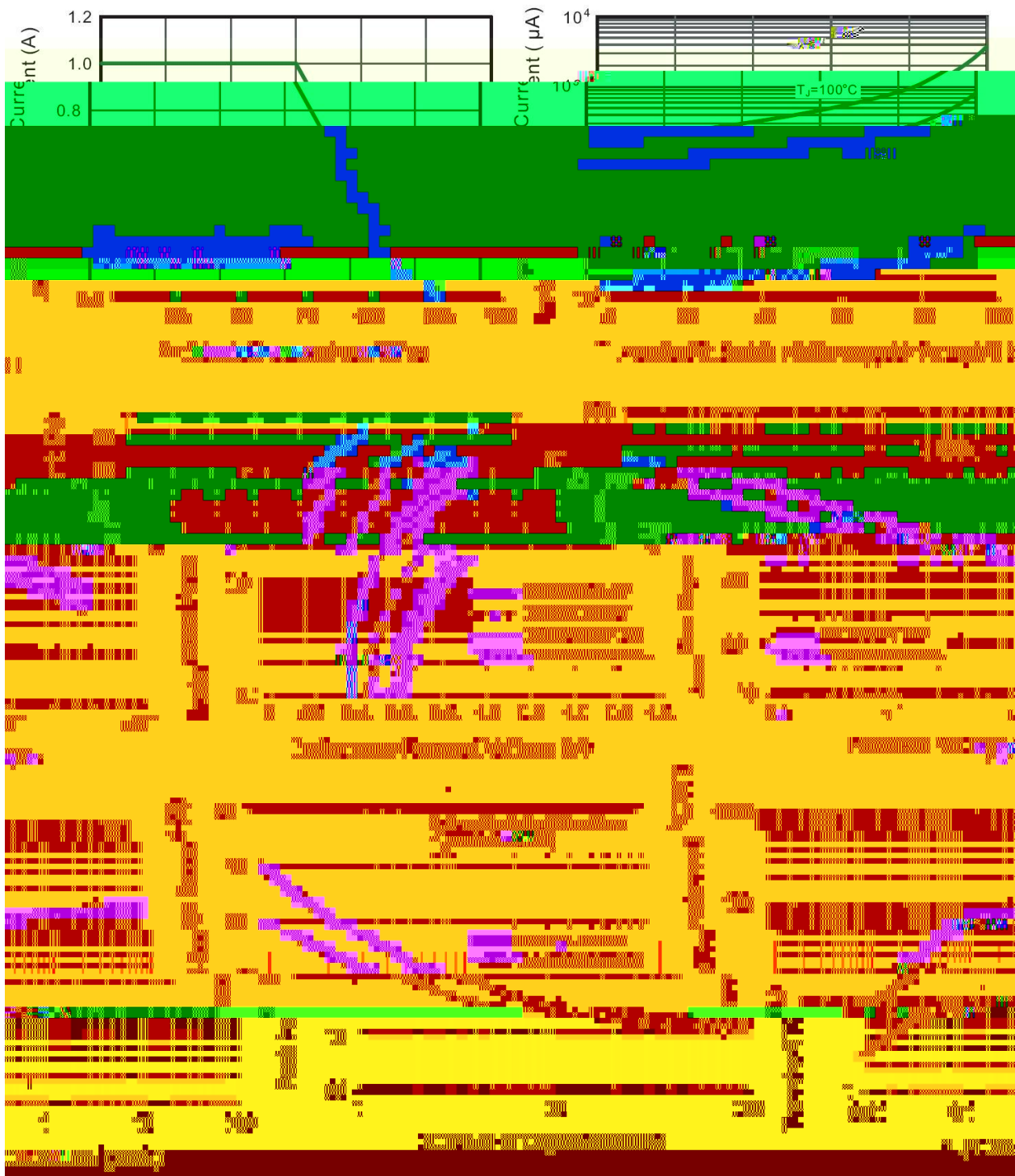
1h Measured at 1MHz and applied reverse voltage of 4 V D.C.

2h P.C.B. mounted with 0.2X0.2"(5X5mm) copper pad areas.

/ Electrical Characteristics(Ta=25)

① Parameter	Z. Symbol	② Test Conditions	数值 Rating								③ Unit
			DS12W	DS14W	DS16W	DS18W	DS110W	DS112W	DS115W	DS120W	
Max Instantaneous Forward Voltage	V _F	I _F =1.0A	0.55		0.70		0.85		0.90		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I _R	T _a =25℃	0.3				0.2		0.1		mA
		T _a =100℃	10				5.0		2.0		

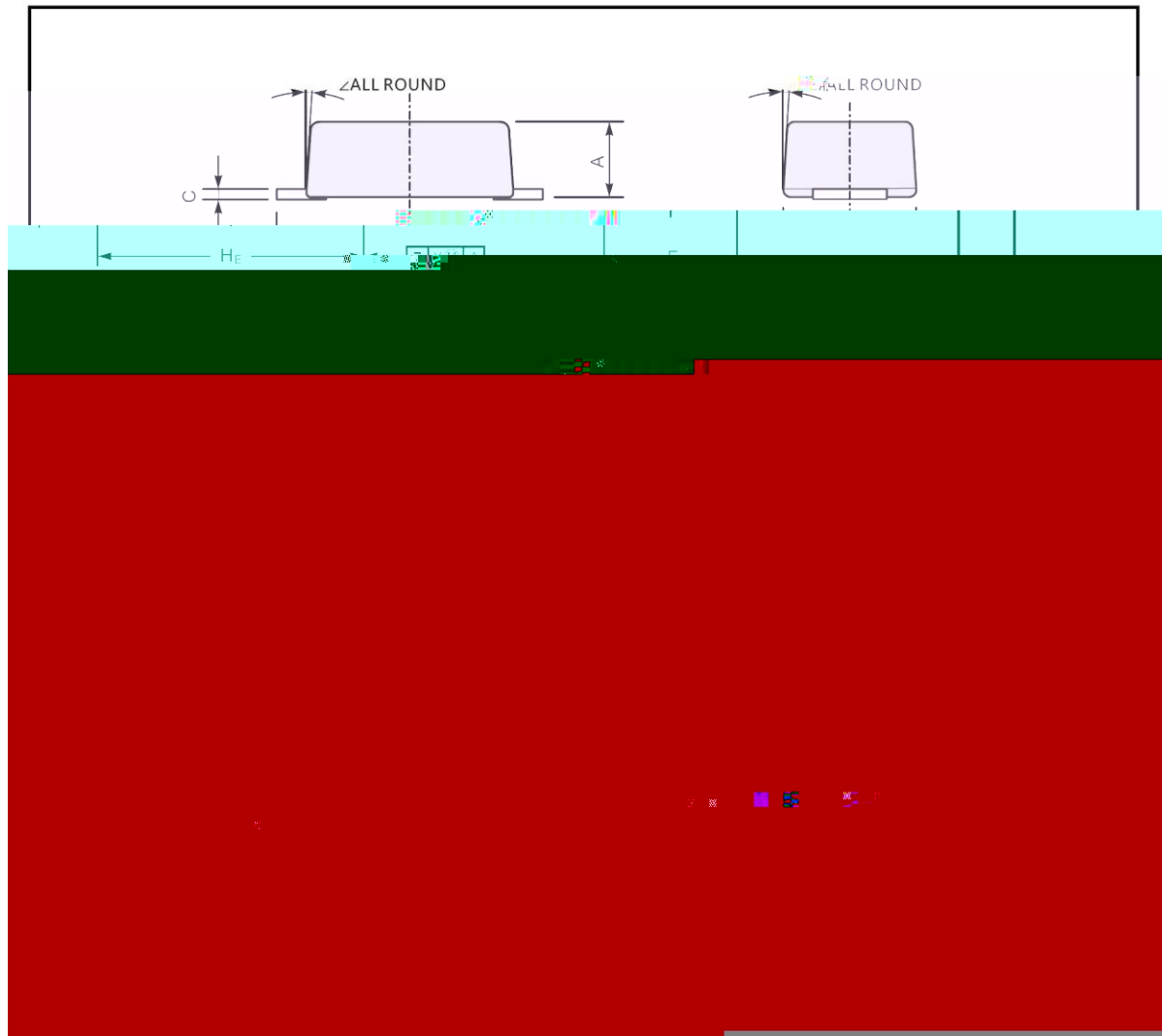
/ Electrical Characteristic Curve





/ Package Dimensions

SOD-123FL

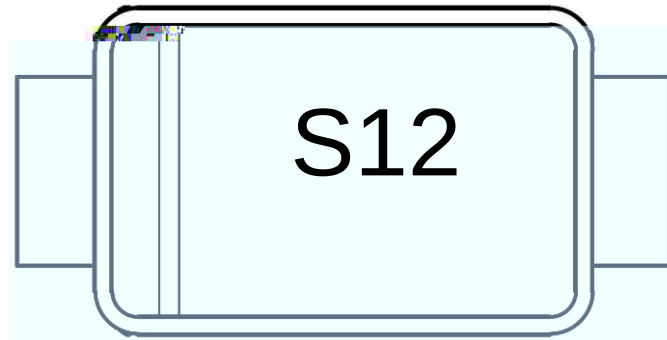


/ Marking Instructions

Marking

Type number	Marking code
DS12W	S12
DS14W	S14
DS16W	S16
DS18W	S18
DS20W	S20
DS22W	S22
DS24W	S24
DS26W	S26
DS28W	S28
DS30W	S30
DS32W	S32
DS34W	S34
DS36W	S36
DS38W	S38
DS40W	S40
DS42W	S42
DS44W	S44
DS46W	S46
DS48W	S48
DS50W	S50
DS52W	S52
DS54W	S54
DS56W	S56
DS58W	S58
DS60W	S60
DS62W	S62
DS64W	S64
DS66W	S66
DS68W	S68
DS70W	S70
DS72W	S72
DS74W	S74
DS76W	S76
DS78W	S78
DS80W	S80
DS82W	S82
DS84W	S84
DS86W	S86
DS88W	S88
DS90W	S90
DS92W	S92
DS94W	S94
DS96W	S96
DS98W	S98
DS100W	S100
DS102W	S102
DS104W	S104
DS106W	S106
DS108W	S108
DS110W	S110
DS112W	S112
DS115W	S115
DS120W	S120

/ Marking Instructions



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Note:

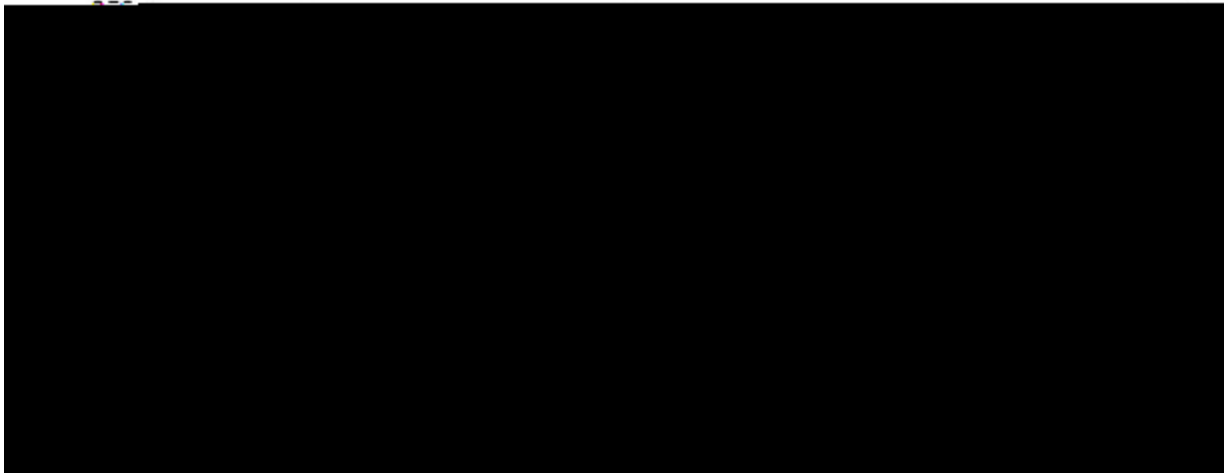
Product Type Code

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Lot No. Codek The 1st "*" means:YM Codek The last 3 "*" means:little Lot

No Code

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④	Note:		
10 12	25½ 150-k 2	60½ 90sec;	1.Preheating:25~150- , Time:60~90sec.
20 10	245r 5-k 10	5r 0.5sec;	2.Peak Temp.:245r 5- , Duration:5r 0.5sec.
30 DN10 †	2½ 10- /sec.		3. Cooling Speed: 2~10- /sec.

/ Resistance to Soldering Heat Test Conditions

④	260r 5-	④	10r 1 sec.	Temp.:260r 5-	Time:10r 1 sec
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/ Packaging SPEC.

2& x / REEL

Package Type
封装形式