

/ Descriptions

SOD-123FL

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

/ Features

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.

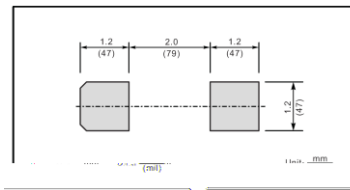
/ Equivalent Circuit



/ Pinning



The recommended mounting pad size



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating								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 sine-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 _{θj-2}	115								°C/W
Operating Junction Temperature Range	T _j	-55~+125								°C
Storage Temperature Range	T _{stg}	-55~+150								°C

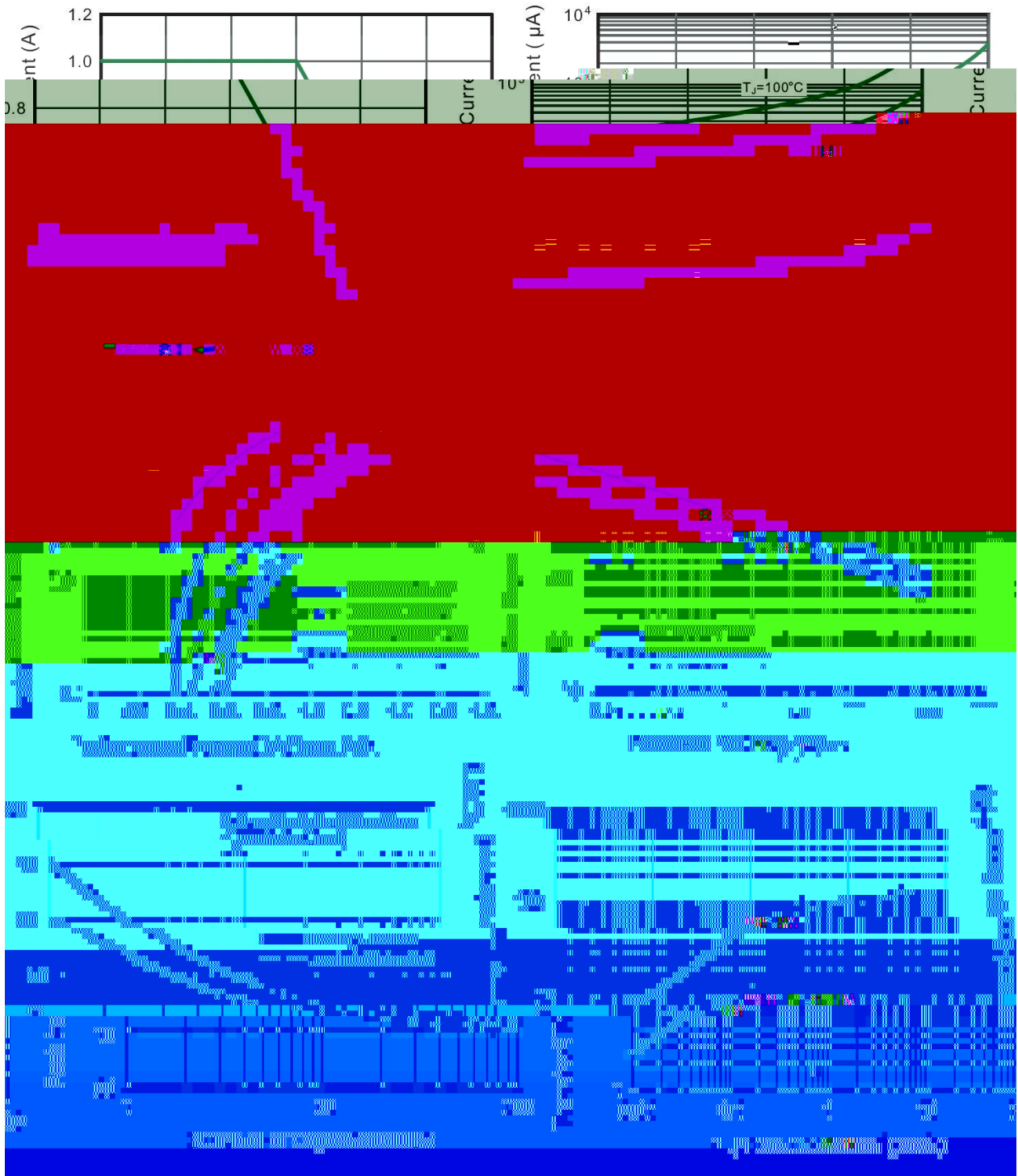
Note:

- 1 Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2 P.C.B. mounted with 0.2X0.2"(5X5mm) copper pad areas.

/ Electrical Characteristics(Ta=25)

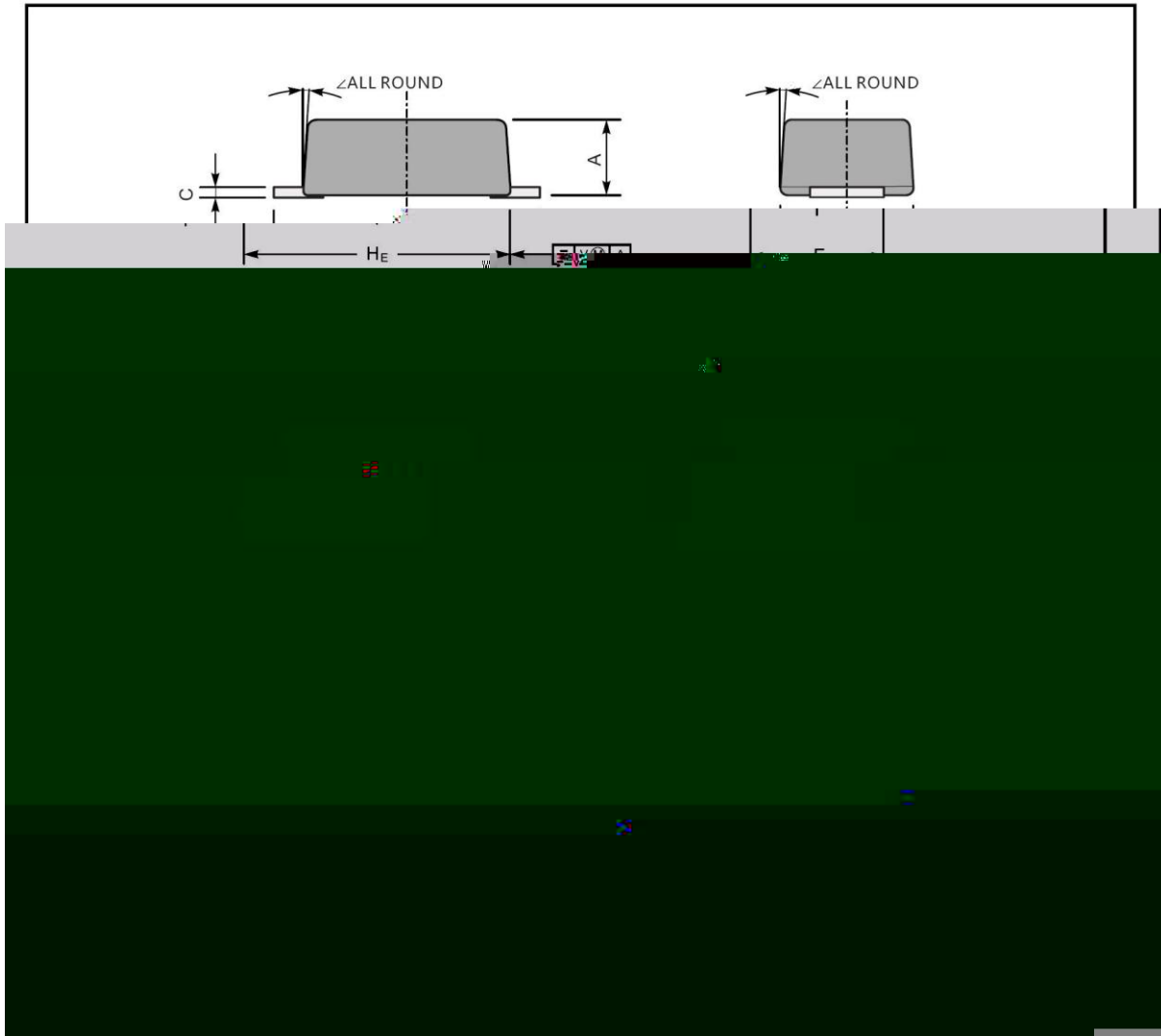
Parameter	Symbol	Test Conditions	数值 Rating								Unit
			DS12W	DS14W	DS16W	DS18W	DS110W	DS112W	DS115W	DS120W	
Max Instantaneous Forward Voltage	V _F	I _F =1.0A	0.55		0.70		0.85		0.90		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I _R	T _a =25°C	0.3				0.2		0.1		mA
		T _a =100°C	10				5.0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

/ Electrical Characteristic Curve



/ Package Dimensions

SOD-123FL



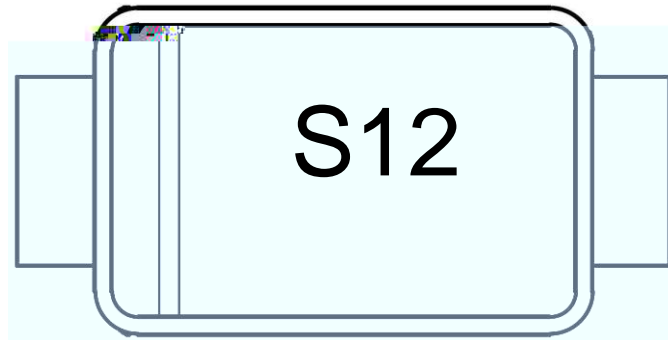
/ Marking Instructions

Marking

Type number	Marking code
DS12W	S12
DS141	S14



/ Marking Instructions

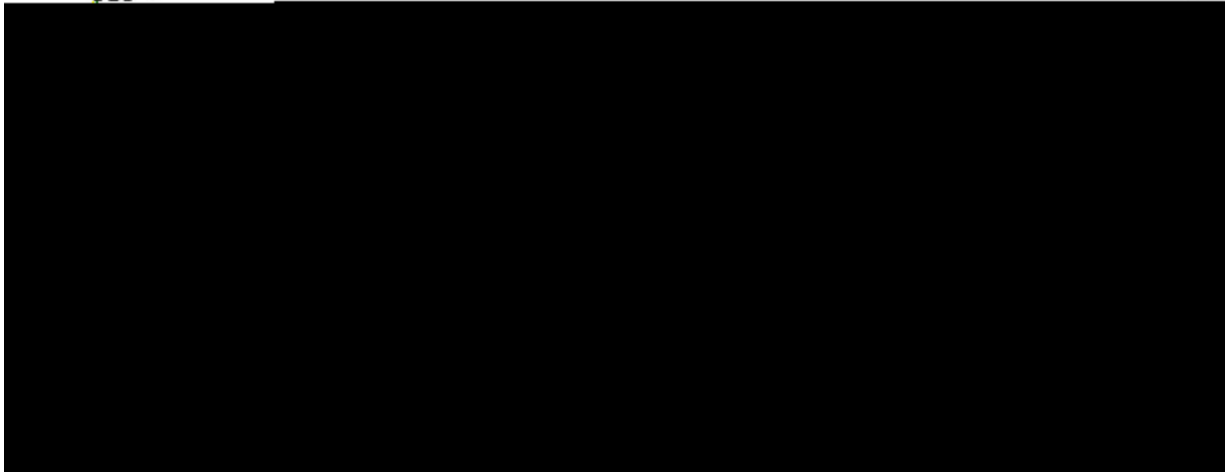


Note:

Product Type Code

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

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1	25	150	60	90sec;	Note:	1.Preheating:25~150 , Time:60~90sec.
2	245	5	5	0.5sec;	2.Peak Temp.:245 5 , Duration:5 0.5sec.	
3			2	10 /sec.	3. Cooling Speed: 2~10 /sec.	

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260 5 Time:10 1 sec

/ Packaging SPEC.

/ REEL

Package Type
封装形式