/ Descriptions

SOD-123FL

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

/ Features

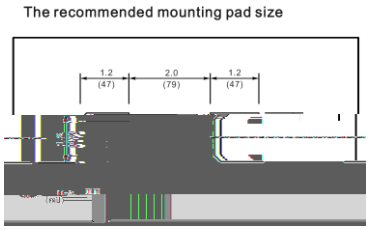
Low power loss，high efficiency， High forward surge current capability，For use in low voltage，high frequency inverters,and polarity protection applications，For surface mounted applications.Halogen free product。

/ Applications

General purpose.

/ Equivalent Circuit

/ Pinning



/ 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 ine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	40				30				A
Typical Junction Capacitance 1)	C_i	110		80						pF
Typical Thermal Resistance2)	$R_{\theta C}$	115								℃/W
Operating Junction Temperature Range	T_j	-55~+125								℃
Storage Temperature Range	T_{stg}	-55~+150								℃

Note:

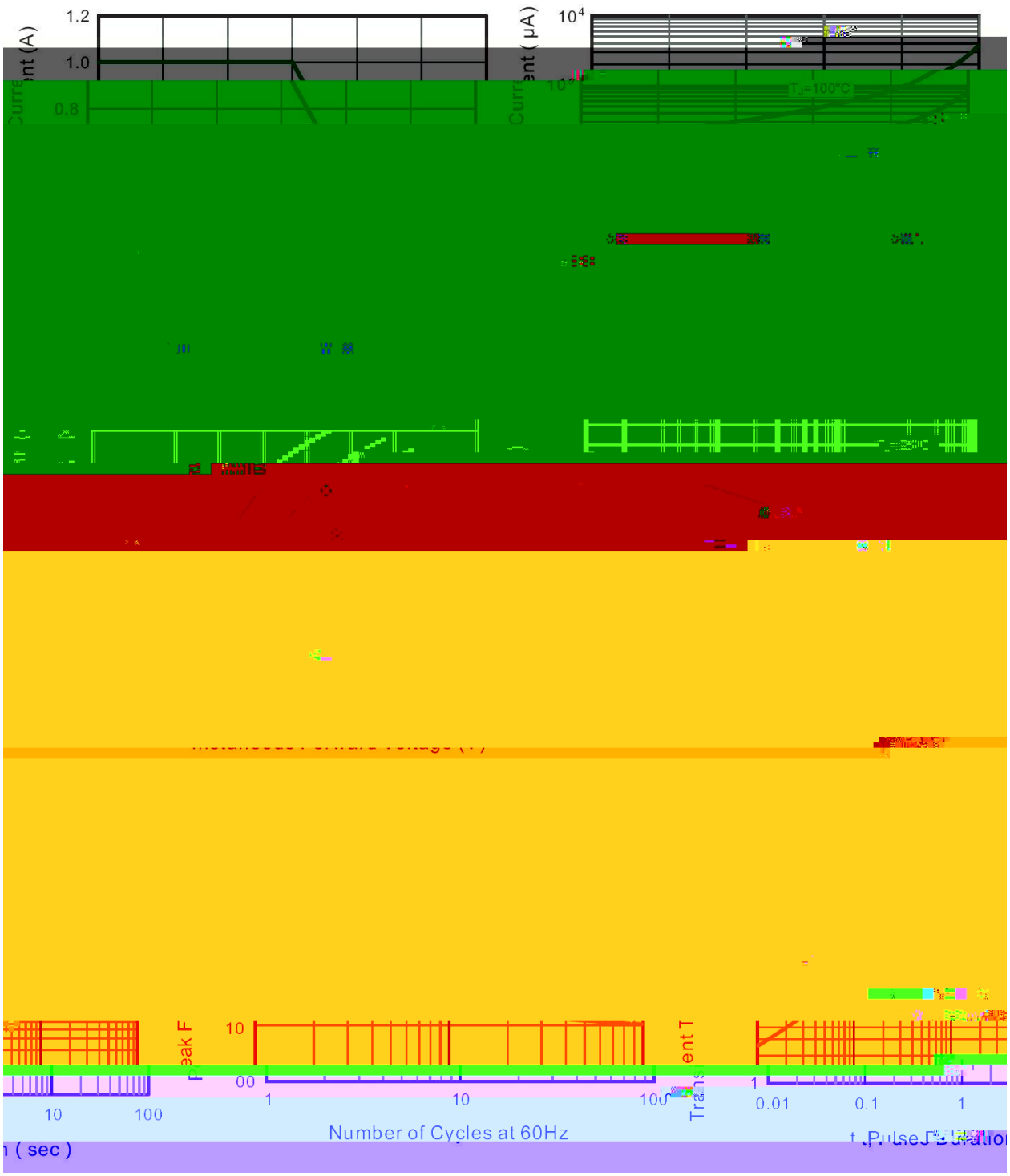
1 Measured at 1MHz and applied reverse voltage of 4 V D.C.

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

/ Electrical Characteristics(Ta=25)

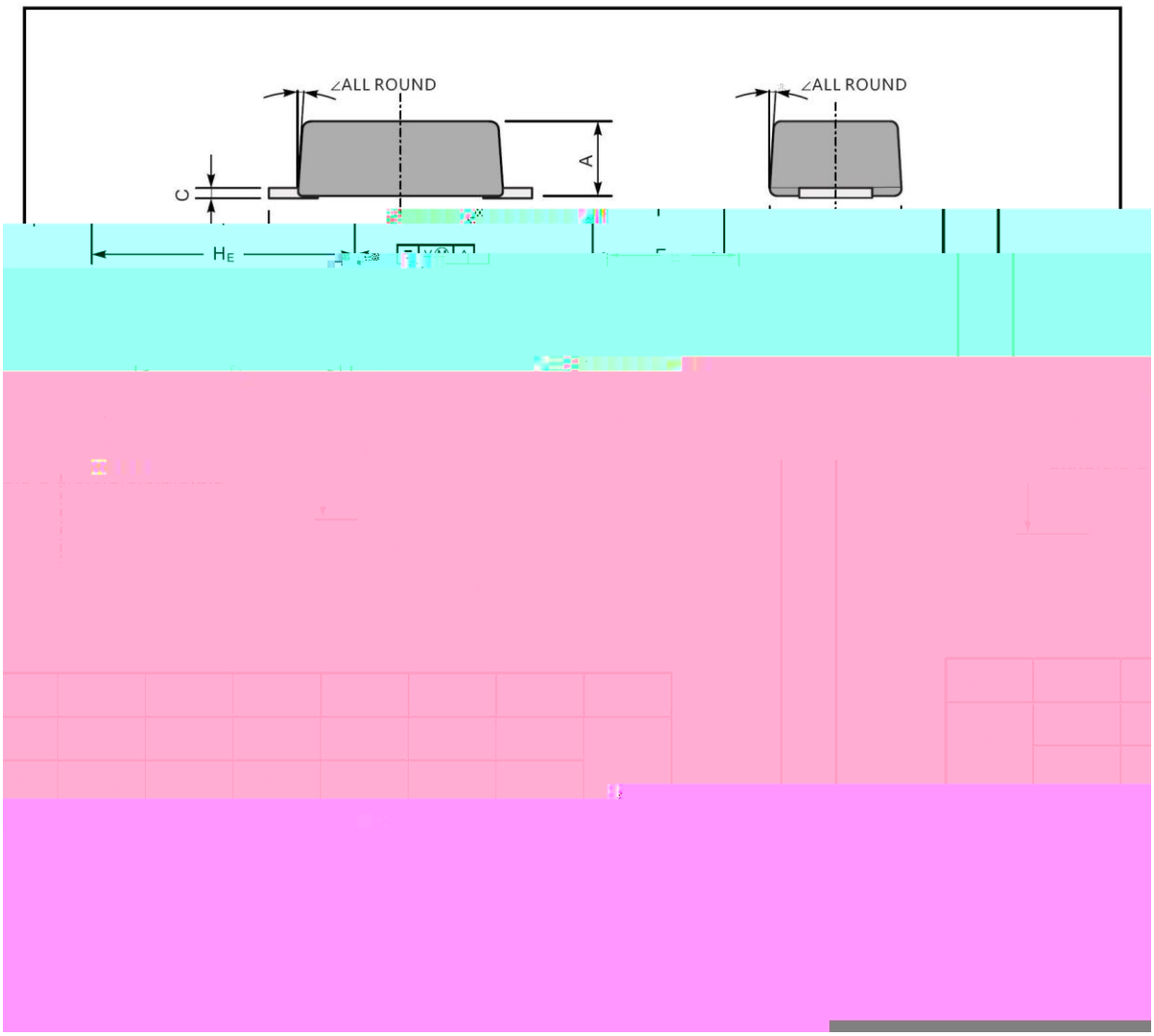
Parameter	Symbol	Test Conditions	数值 Rating								Unit
			DS12W	DS14W	DS16W	DS18W	DS110W	DS112W	DS115W	DS120W	
Max Instantaneous Forward Voltage	V_F	I_F=1.0A	0.55		0.70		0.85		0.90		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	T_a=25℃	0.3				0.2		0.1		mA
		T_a=100℃	10				5.0		2.0		

/ Electrical Characteristic Curve



/ Package Dimensions

SOD-123FL

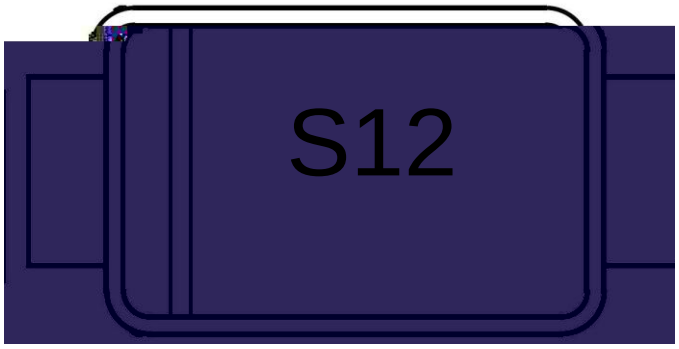


/ Marking Instructions

Marking

Type number	Marking code
DS12W	S12
DS14[redacted]	[redacted]

/ Marking Instructions



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Note:

Product Type Code

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