

DS22W~DS220W

Rev.D May.-2017

/ Descriptions

20~200V 2.0A SOD-123FL
Surface Mount Schottky Barrier Rectifier Reverse Voltage 20 to 200 V Forward Current 2.0A
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.

DS22W~DS220W

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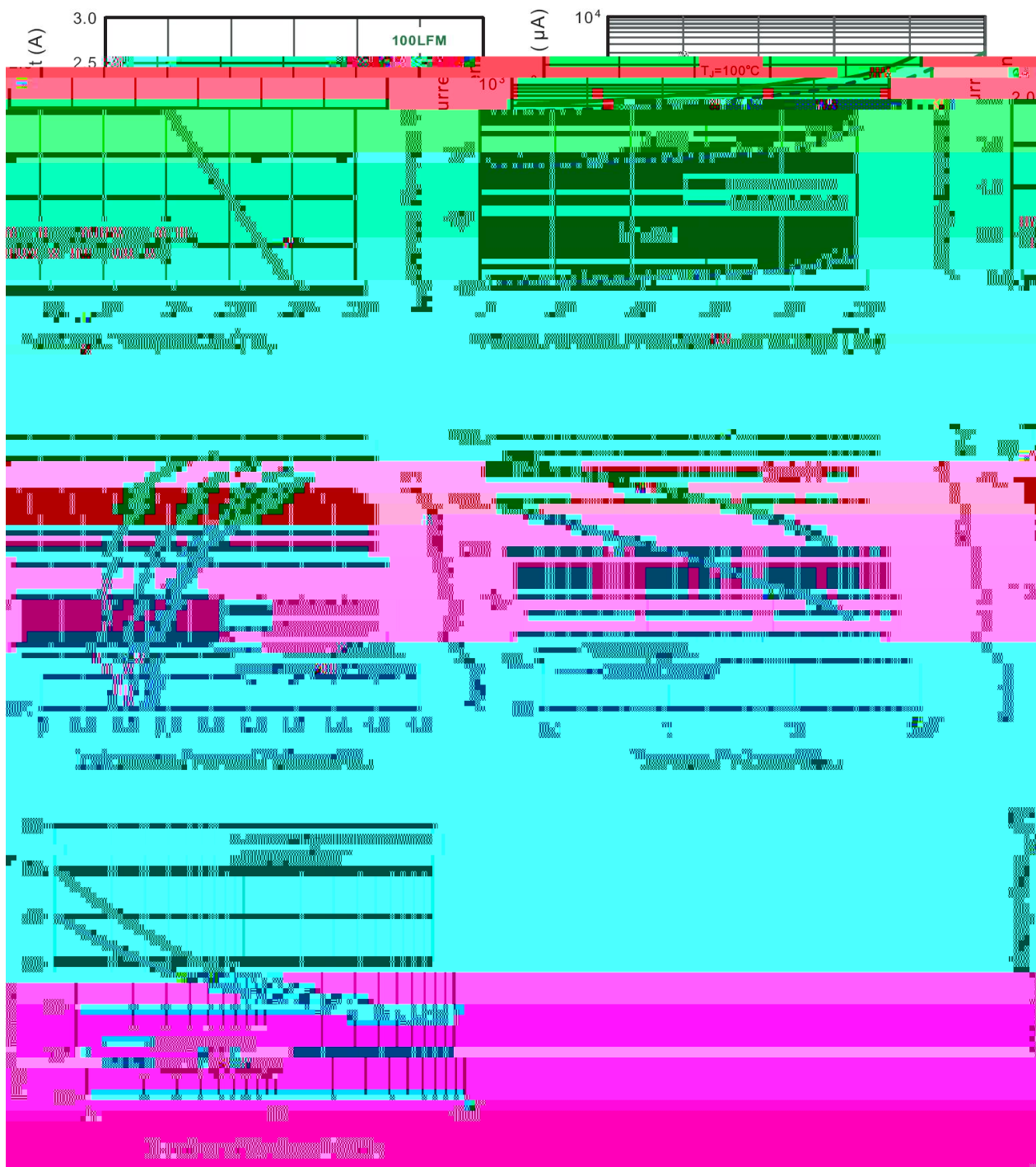
Parameter	Symbol	Rating								Unit
		DS22W	DS24W	DS26W	DS28W	DS210W	DS212W	DS215W	DS220W	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F AV}	2.0								A
Peak Forward Surge Current,8.3ms Single Half ine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50				40				A
Typical Junction Capacitance ¹	C _i	220		80						pF
Operating Junction Temperature Range	T _j	-55~+125								
Storage Temperature Range	T _{stg}	-55~+150								

Note:

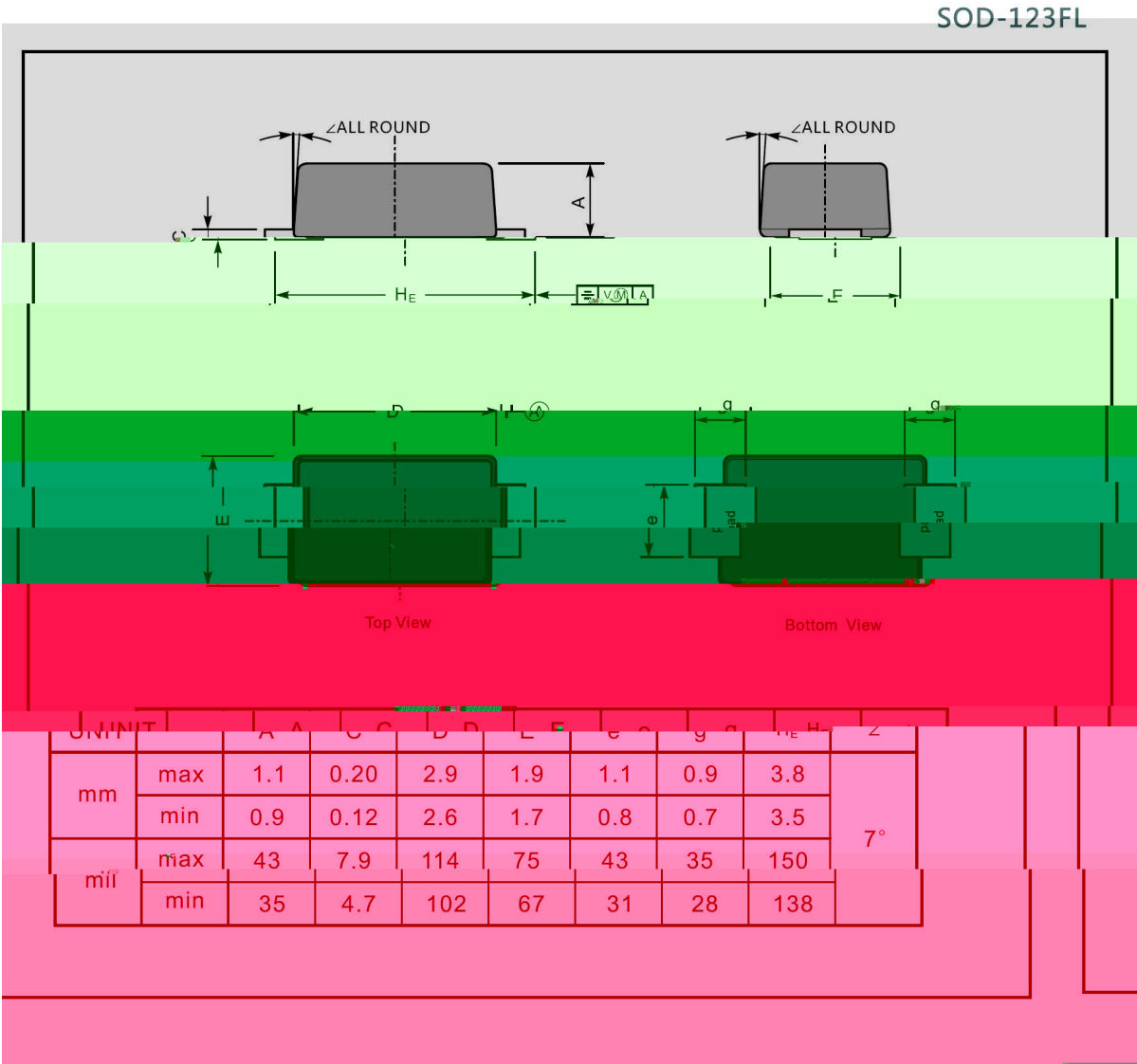
1 Measured at 1MHz and applied reverse voltage of 4 V D.C.

Parameter	Symbol	Test Conditions	Rating								Unit
			DS22W	DS24W	DS26W	DS28W	DS210W	DS212W	DS215W	DS220W	
Max Instantaneous Forward Voltage Maximum DC	V_F	$I_F=2.0A$	0.55		0.70		0.85		0.95		V

/ Electrical Characteristic Curve



/ Package Dimensions





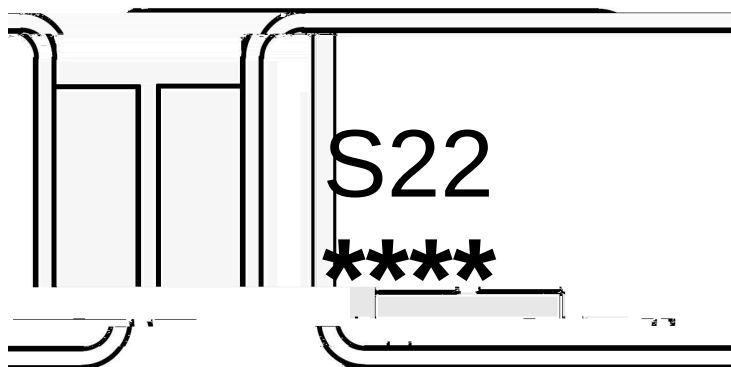
/ Marking Instructions

Marking

Type number	Marking code
DS22W	S22
DS24W	S24
DS26W	S26
DS28W	S28
DS210W	S210
DS212W	S212
DS215W	S215
DS220W	S220



/ Marking Instructions



S22

1 *

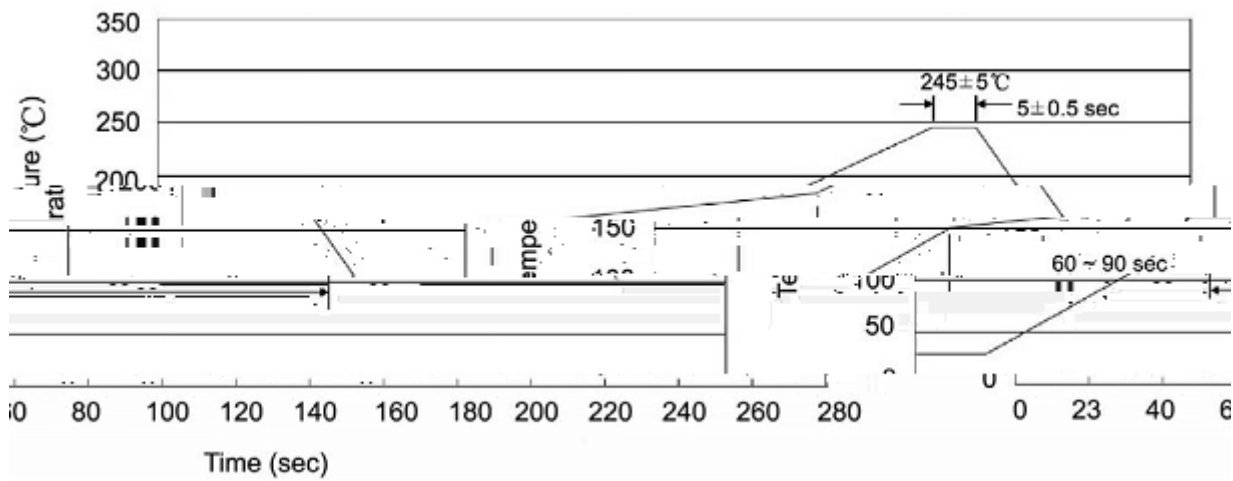
3 *

Note:

S22 Product Type Code

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

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

25 150

60 90sec;
- 2

245±5

5±0.5sec;
- 3

2 10 /sec.
- 1.Preheating:25~150 , Time:60~90sec.
- 2.Peak Temp.:245±5 , Duration:5±0.5sec.
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	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-123FL	3000	8	24000	5	120000	7 ×11	185X180X105	390X385X205

/ Notices