

/ Descriptions

SOD-123FL

Schottky Barrier Rectifiers,SOD-123FL thin package.

/ Features

Low power loss, high efficiency.High current capability,low forward voltage drop,High surge capability,
For use in low voltage, high frequency inverters.Halogen free product.

/ Applications

General purpose.

/ Equivalent Circuit

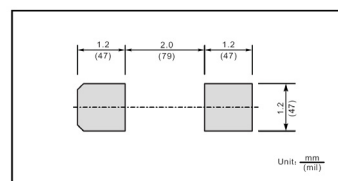


/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

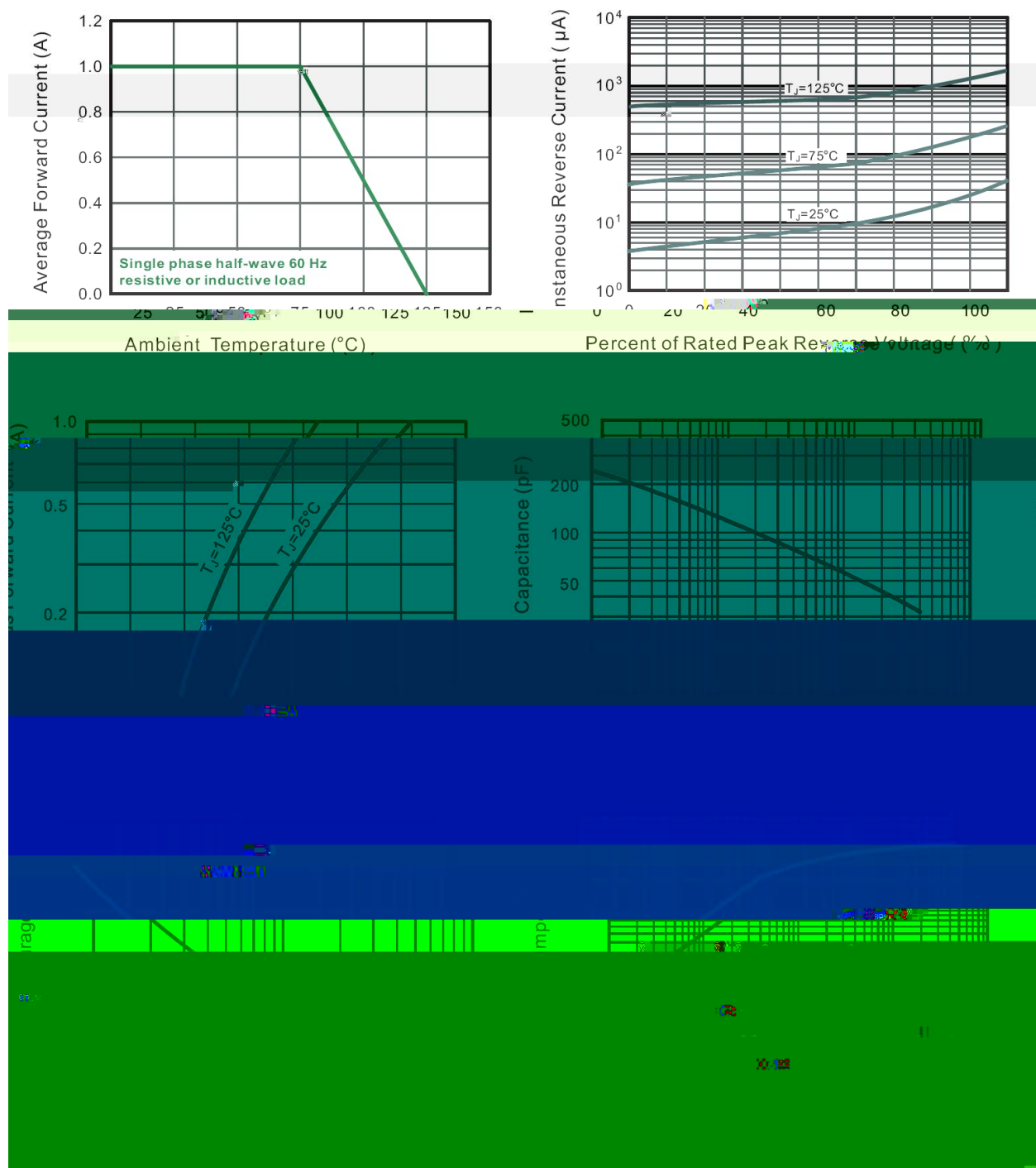
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating			Unit
		1N5817W	1N5818W	1N5819W	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	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}	25			A
Typical Junction Capacitance	C_i	110			pF
Storage and Operating Junction Temperature Range	T_j, T_{stg}	-55~+125			

/ Electrical Characteristics(Ta=25)

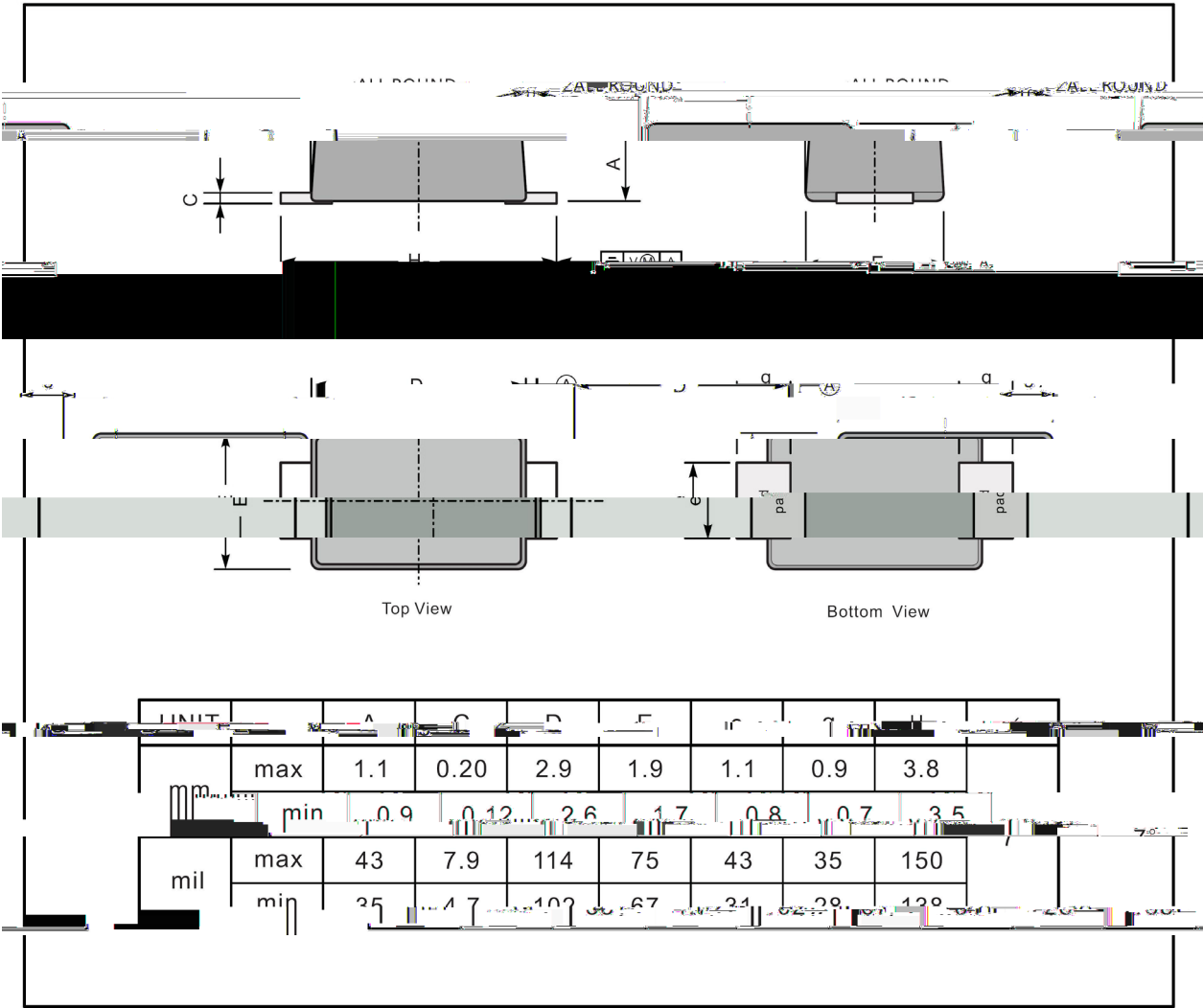
Parameter	Symbol	Test Conditions	Rating			Unit
			1N5817W	1N5818W	1N5819W	
Maximum Instantaneous Forward Voltage	V_F	$I_F=1.0A$	0.45	0.55	0.60	V
		$I_F=3.1A$	0.75	0.875	0.9	
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage	I_R	$T_a=25$	1.0			mA
		$T_a=100$	10			mA

/ Electrical Characteristic Curve



/ Package Dimensions

SOD-123FL

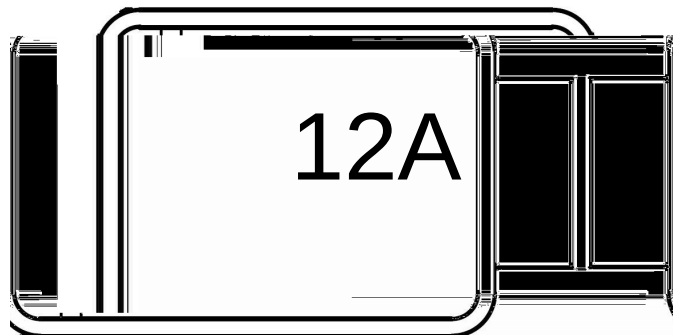


/ Marking Instructions

Marking

Type number	Marking code
1N5817W	12A
5818W	13A
5819W	14A

/ Marking Instructions



12A

1

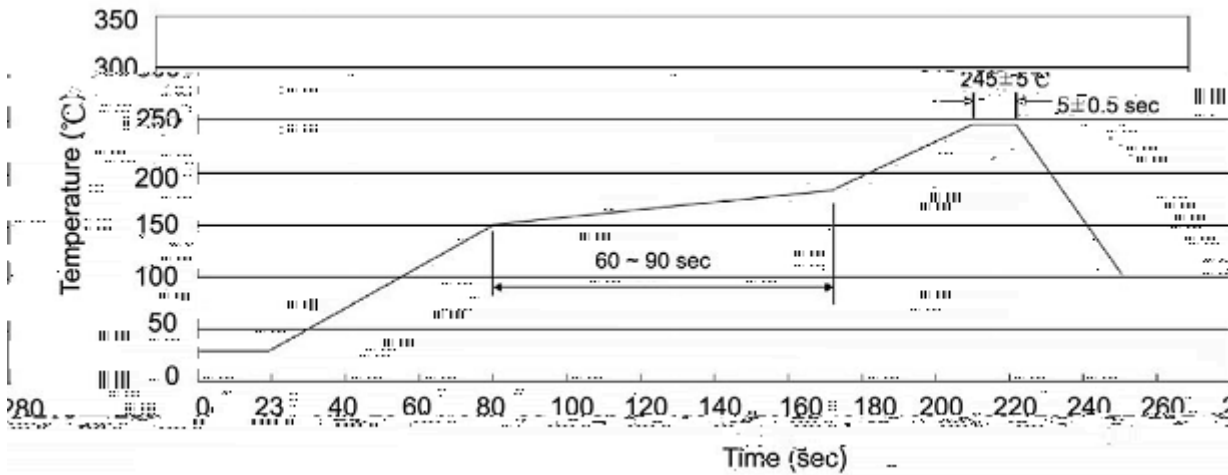
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Note:

12A Product Type Code

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

() /



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 25 | 150 | 60 | 90sec; | 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	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