

/ Descriptions

40V 2.0A SOD-123FL

Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 40V, 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.

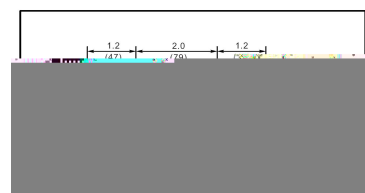
/ Equivalent Circuit



/ Pinning

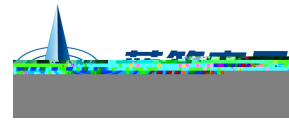


The recommended mounting pad size

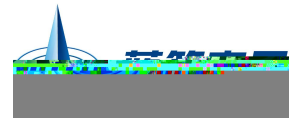


/ Marking

See Marking Instructions.



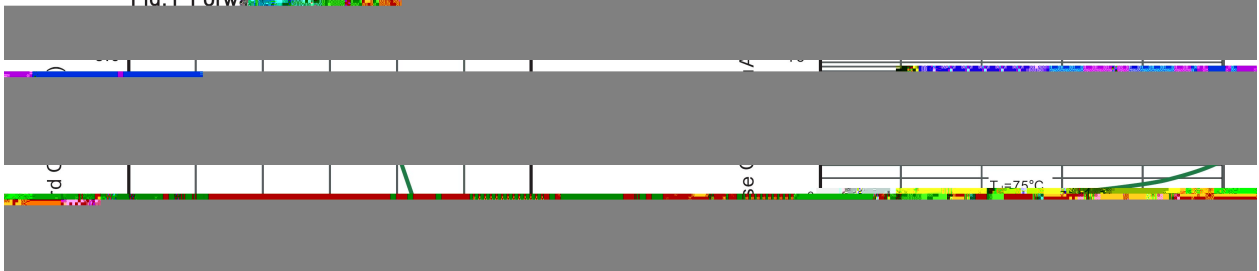
Parameter	Symbol	DSL24W		Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}		40	V
Maximum RMS Voltage	V_{RMS}	V	28	V
Maximum DC Blocking Voltage	V_{DC}		40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$		2	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}		50	A
Typical Junction Capacitance ¹⁾	C_i		290	pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$		70	°C/W
Operating Junction Temperature Range	T_j		-55~+125	°C

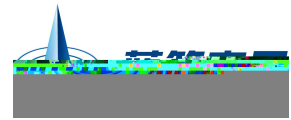


/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

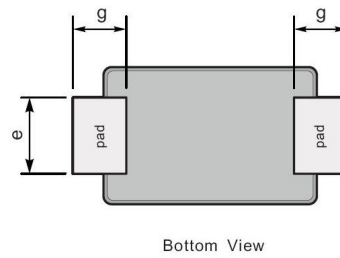
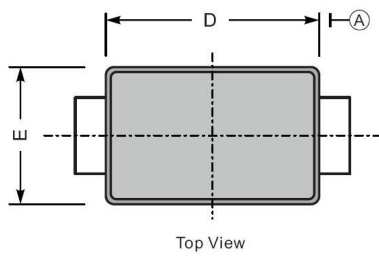
Fig.2 Typical Reverse Characteristics





/ Package Dimensions

SOD-123FL



UNIT		A	C	D	E	e	g	H _E	∠
	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	



/ Marking Instructions

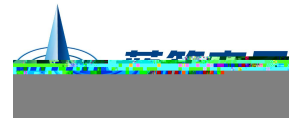
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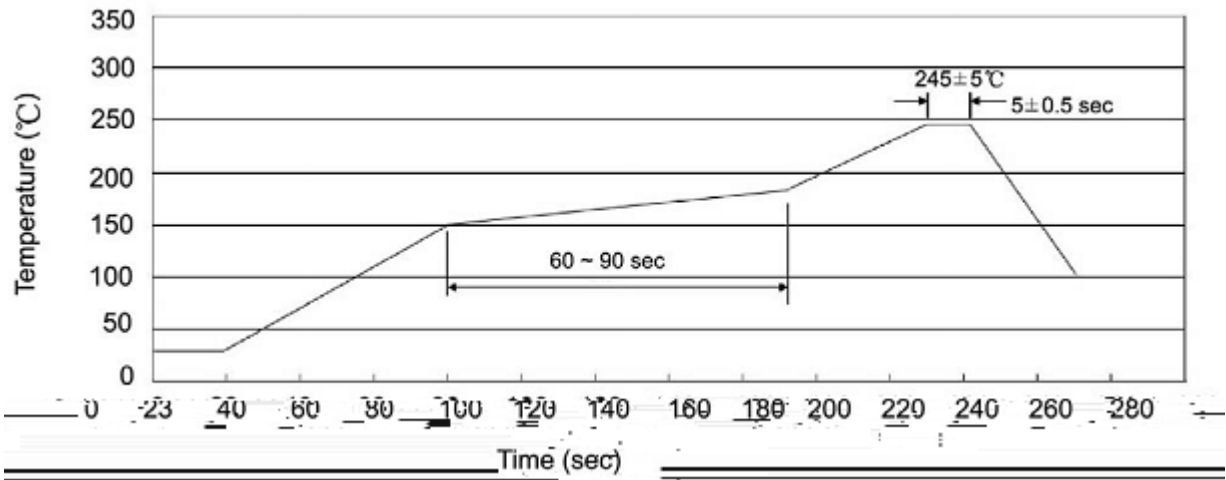
Note:

Product Type Code

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



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



Note:

- | | | | | | |
|---|-------|-----|-------|----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5 | sec; | 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	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOD-123FL	3000	8	24000	5	120000	7" ×11	185X180X105	390X385X205

/ Notices