

/ Descriptions

40V 3.0A SOD-123FL

Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 40V, Forward Current: 3.0A, 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,HF Product.

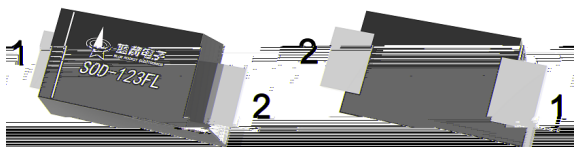
/ Applications

General purpose.

/ Equivalent Circuit

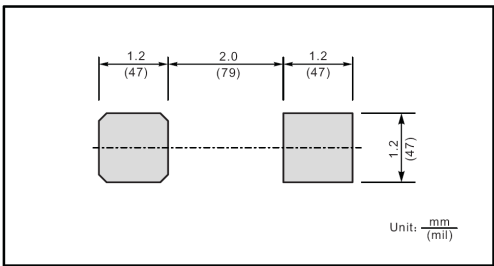


/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
		DSL34W	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	$I_F (AV)$	3	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	230	pF
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	80	°C/W
Operating Junction Temperature Range	T_j	-55 ~ +125	°C
Storage Temperature Range	T_{stg}	-55 ~ +125	°C

Note:

- 1 Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2 P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	数值 Rating	Unit
			DSL34W	
Maximum Instantaneous Forward Voltage	V_F	$I_F=3.0A$	0.45	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^{\circ}C$	1.0	mA
		$T_a=100^{\circ}C$	20	

/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

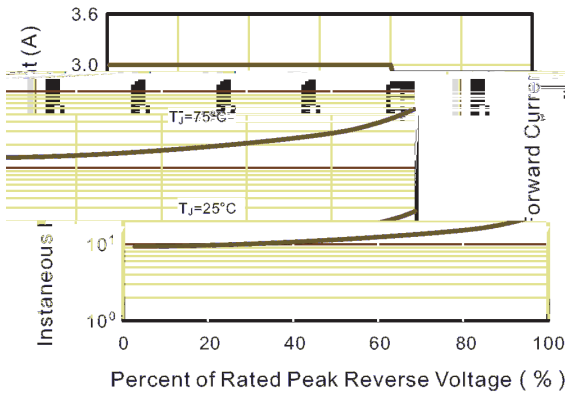


Fig.2 Typical Reverse Characteristics

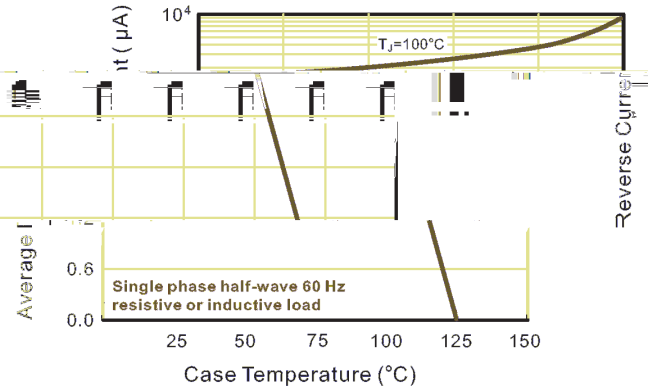


Fig.3 Typical Forward Characteristic

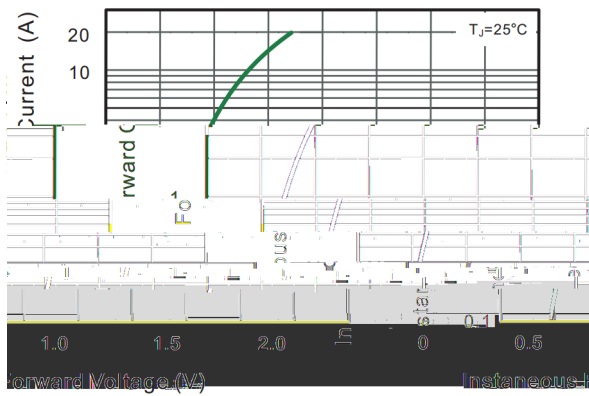


Fig.3 Typical Forward Characteristic

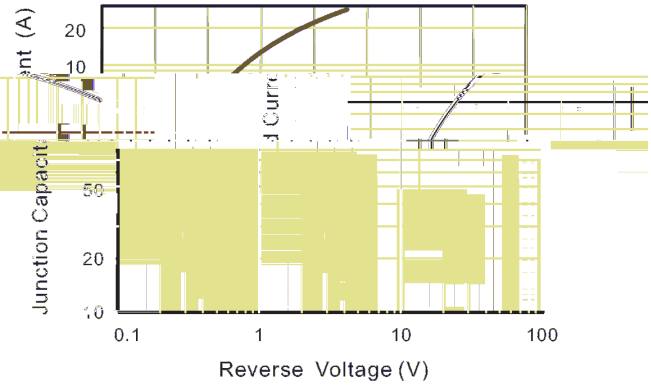


Fig.5 Maximum Non Repetitive Peak Current

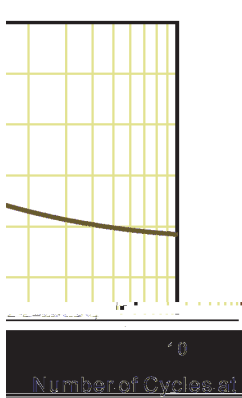
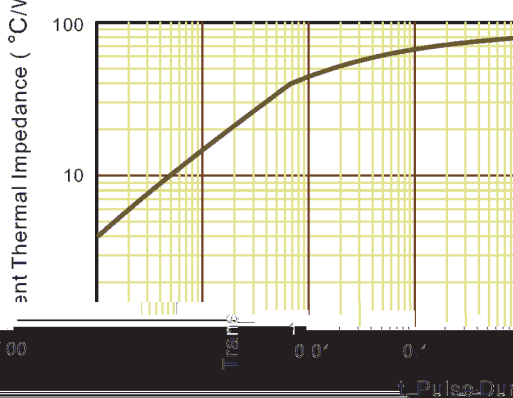
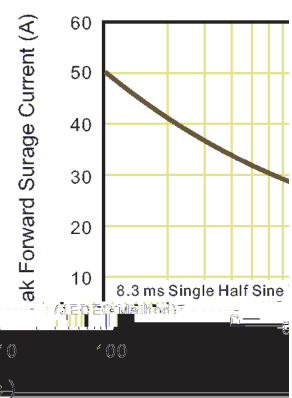


Fig.6 Typical Transient Thermal Impedance

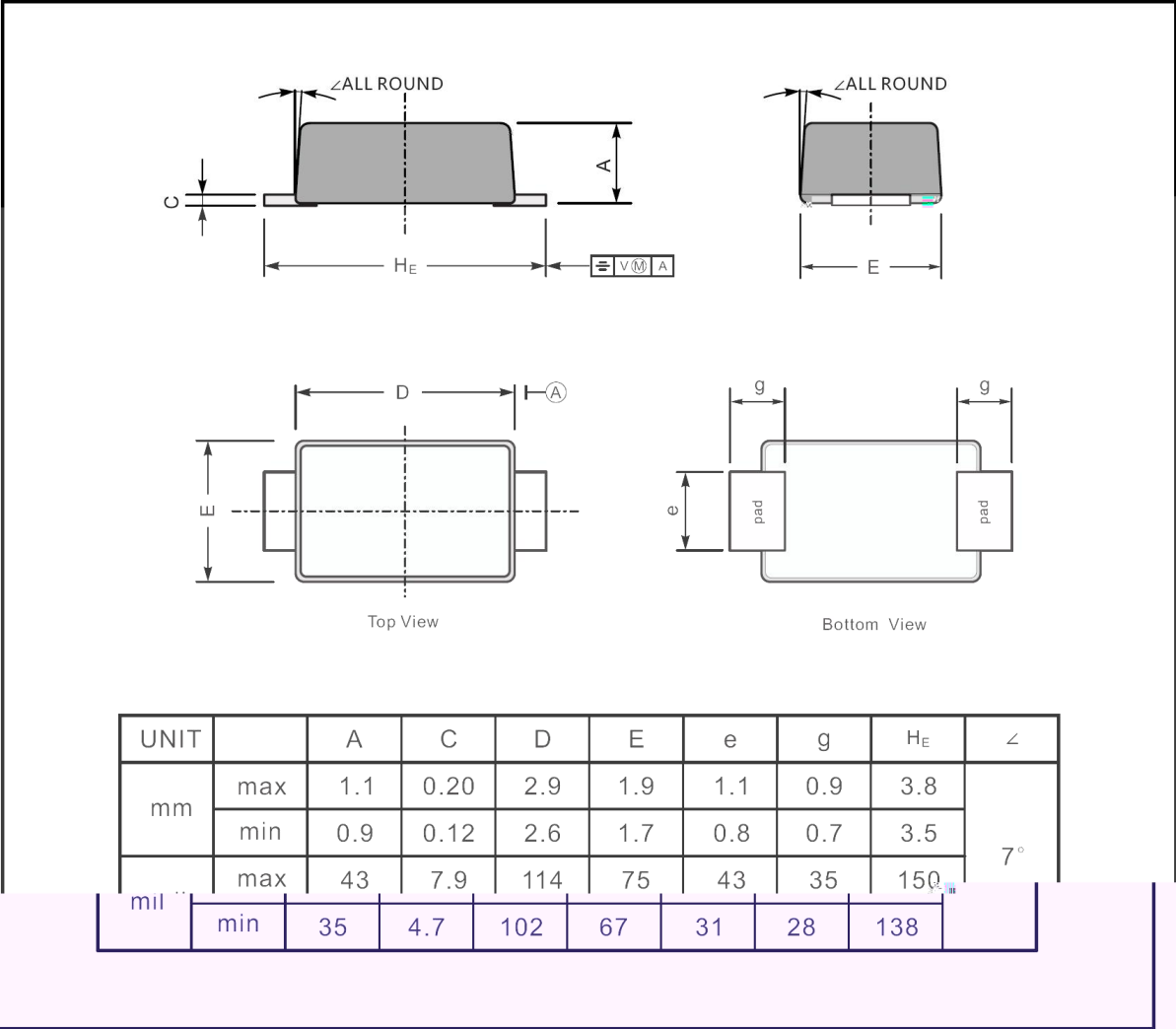


Forward Surge

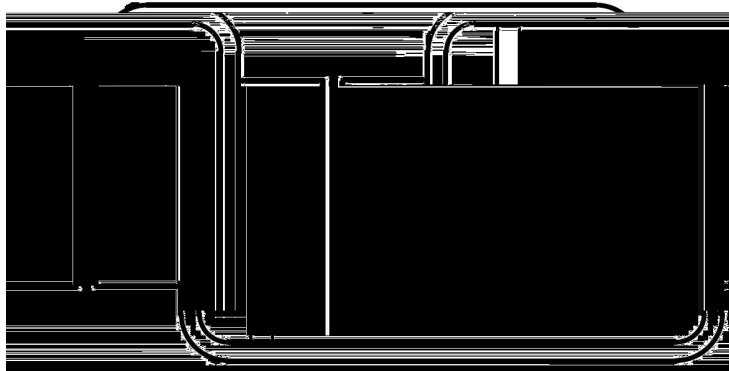


/ Package Dimensions

SOD-123FL



/ Marking Instructions



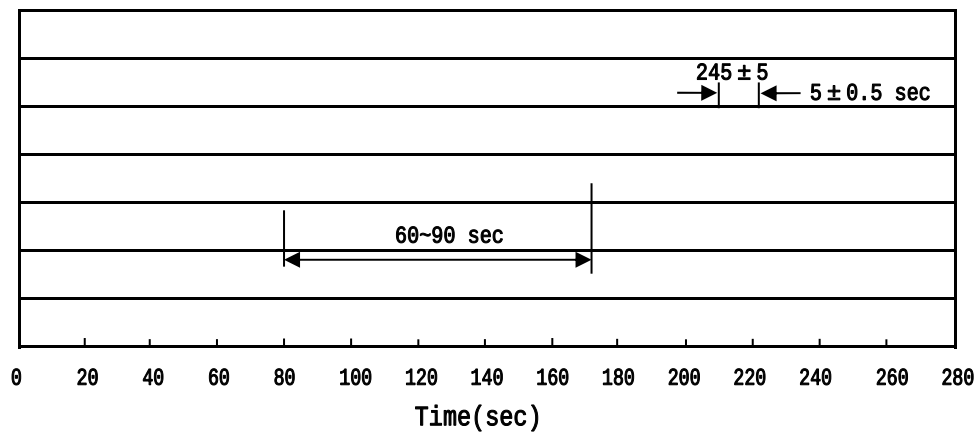
34L

Note:

34L Product Type Code

**** Lot No. Code, code change with Lot No

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



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , 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	3,000	8	24,000	6	144,000	7" ×8	185×180×105	390×385×205

/ Notices