

/ 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

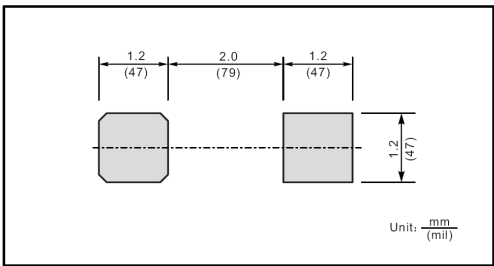


/ Pinning



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 _{θJA}	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°C	1.0	mA
		T _a =100°C	20	

/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

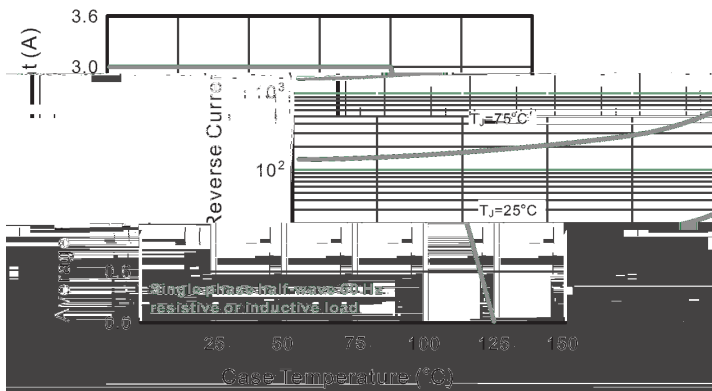


Fig.2 Typical Reverse Characteristics

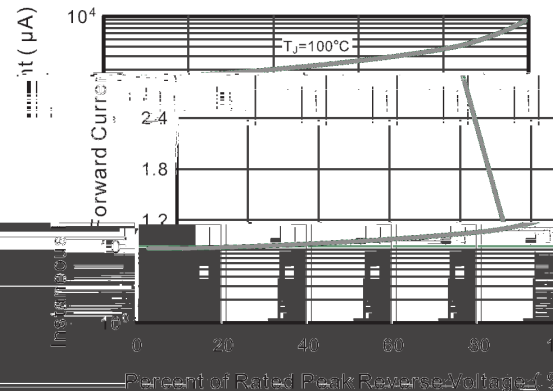


Fig.3 Typical Forward Characteristic

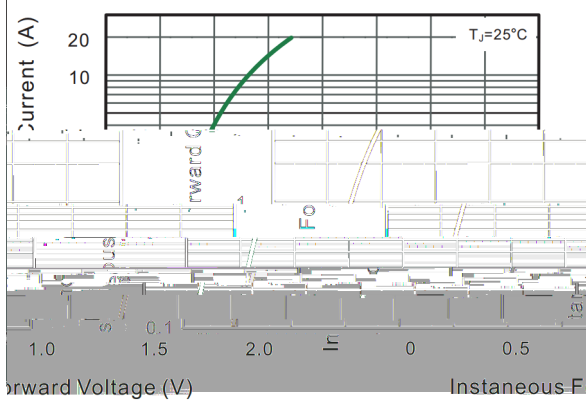


Fig.4 Typical Junction Capacitance

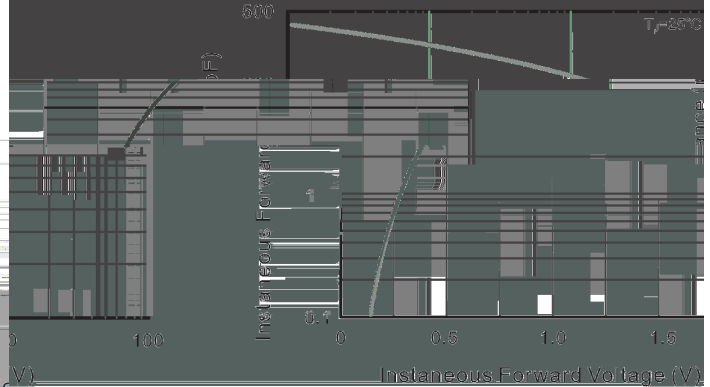


Fig.5 Typical Transient Thermal Impedance

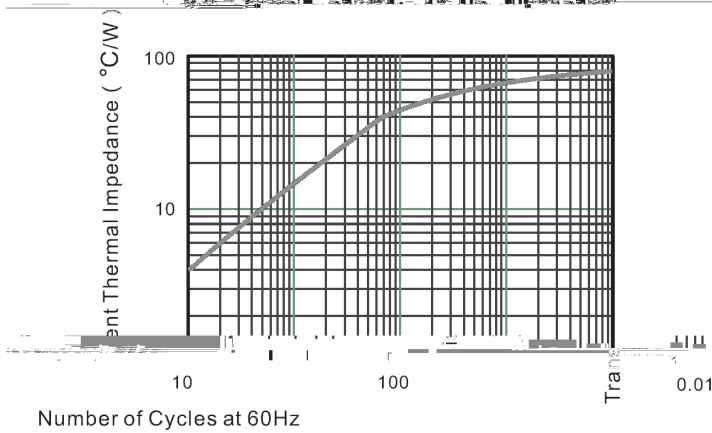
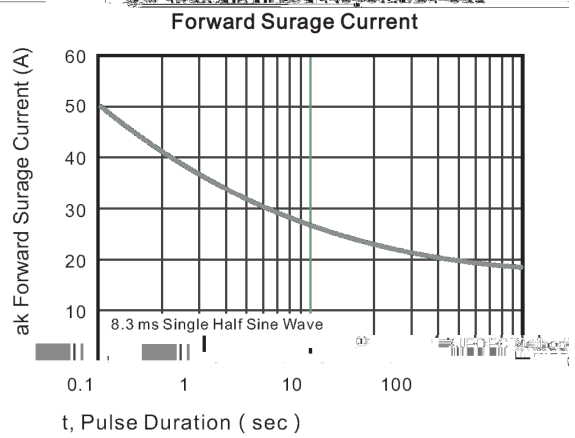
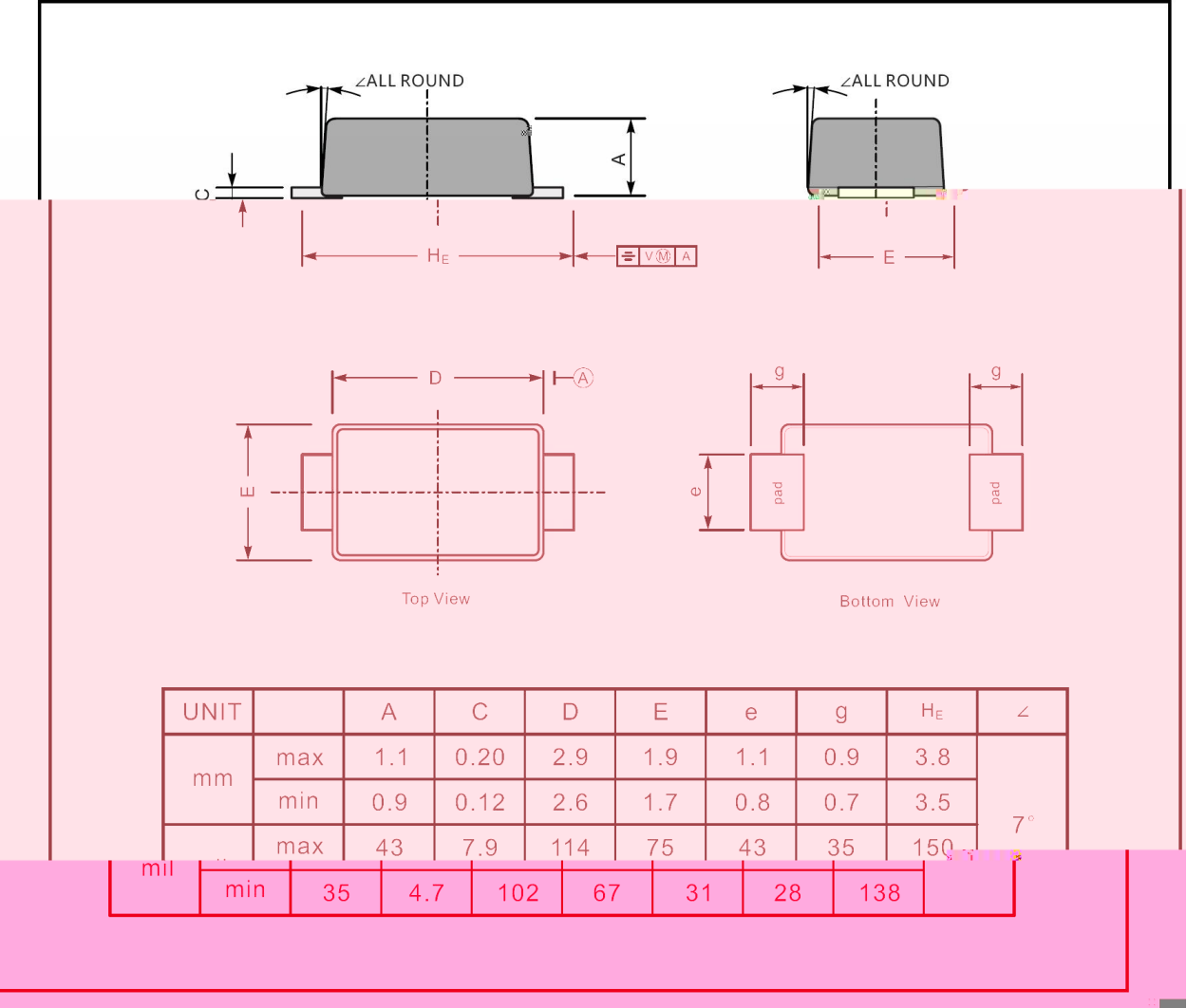


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current

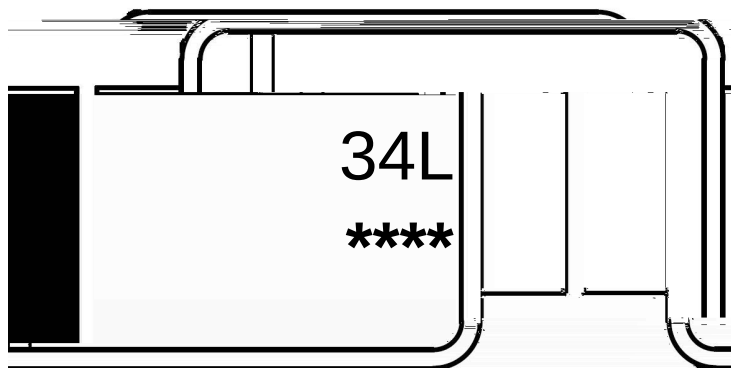


/ Package Dimensions

SOD-123FL



/ Marking Instructions



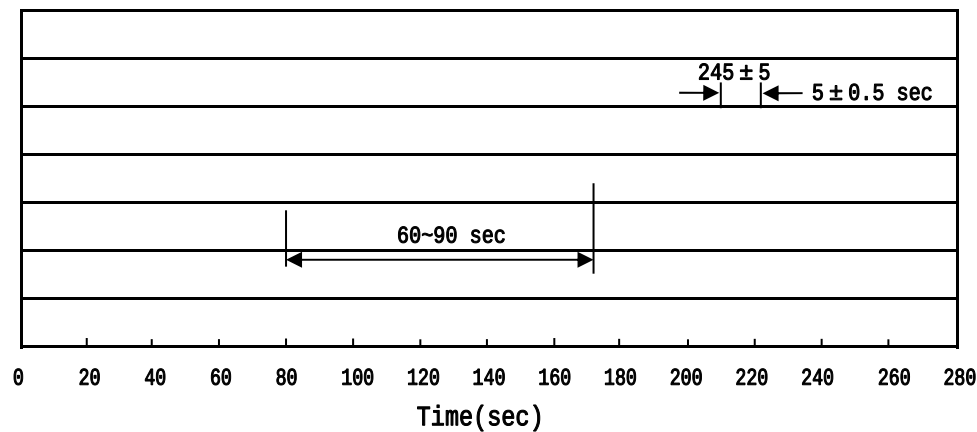
34L

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)		
SOD-123FL	3,000	8	24,000	6	144,000	7" ×8	185×180×105	390×385×205

/ Notices