

/ 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.

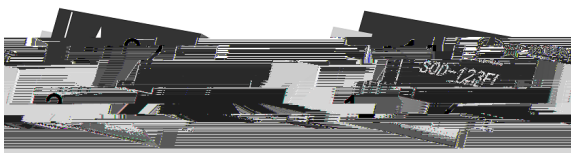
/ Applications

General purpose.

/ Equivalent Circuit

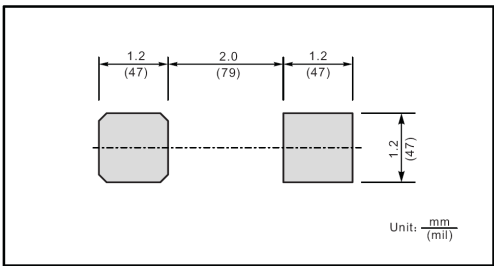


/ Pinning



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 _{JA}	80	°N/W
Operating Junction Temperature Range	T _j	-55 ~ +125	°N
Storage Temperature Range	T _{stg}	-55 ~ +125	°N

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	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°N	1.0	mA
		T _a =100°N	20	

/ Electrical Characteristic Curve

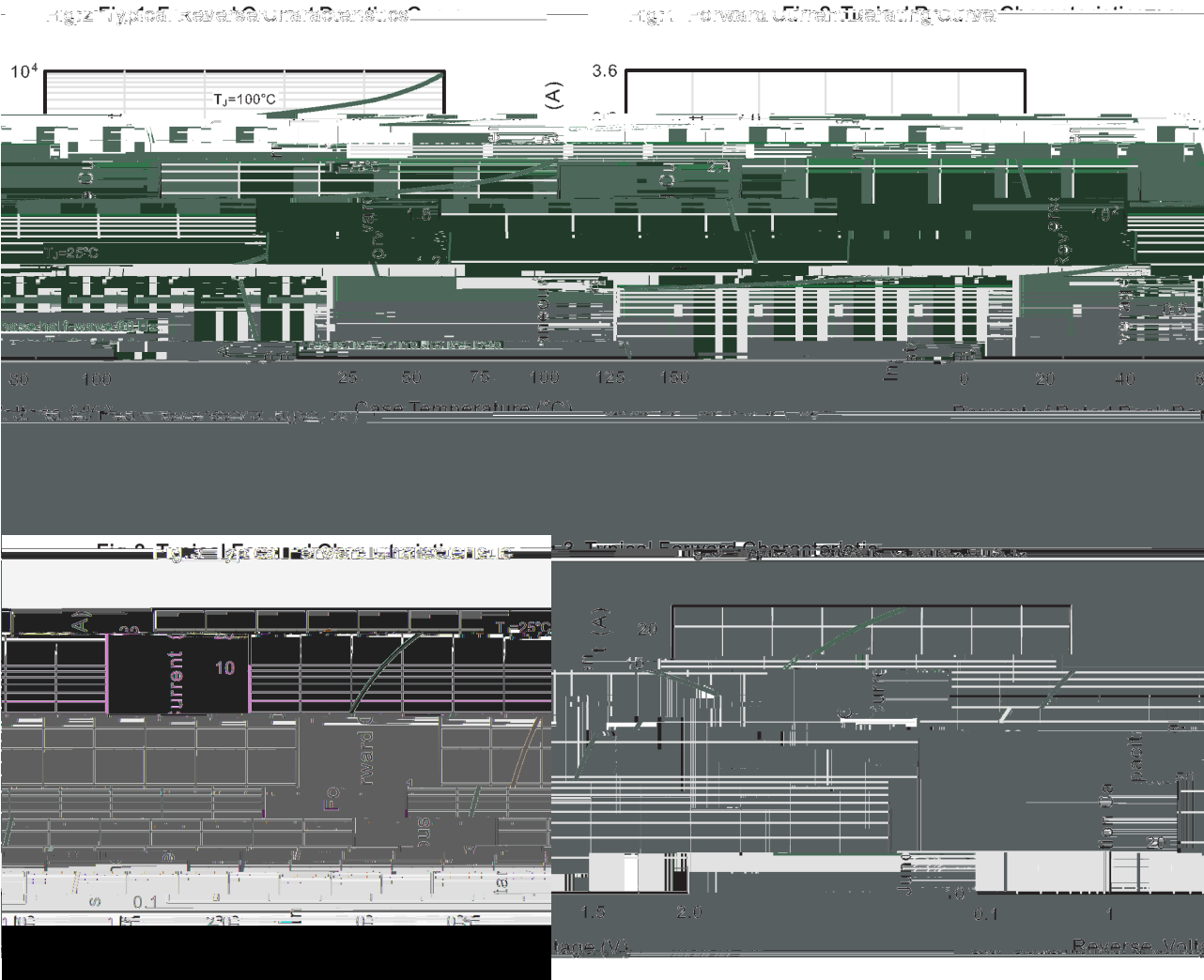


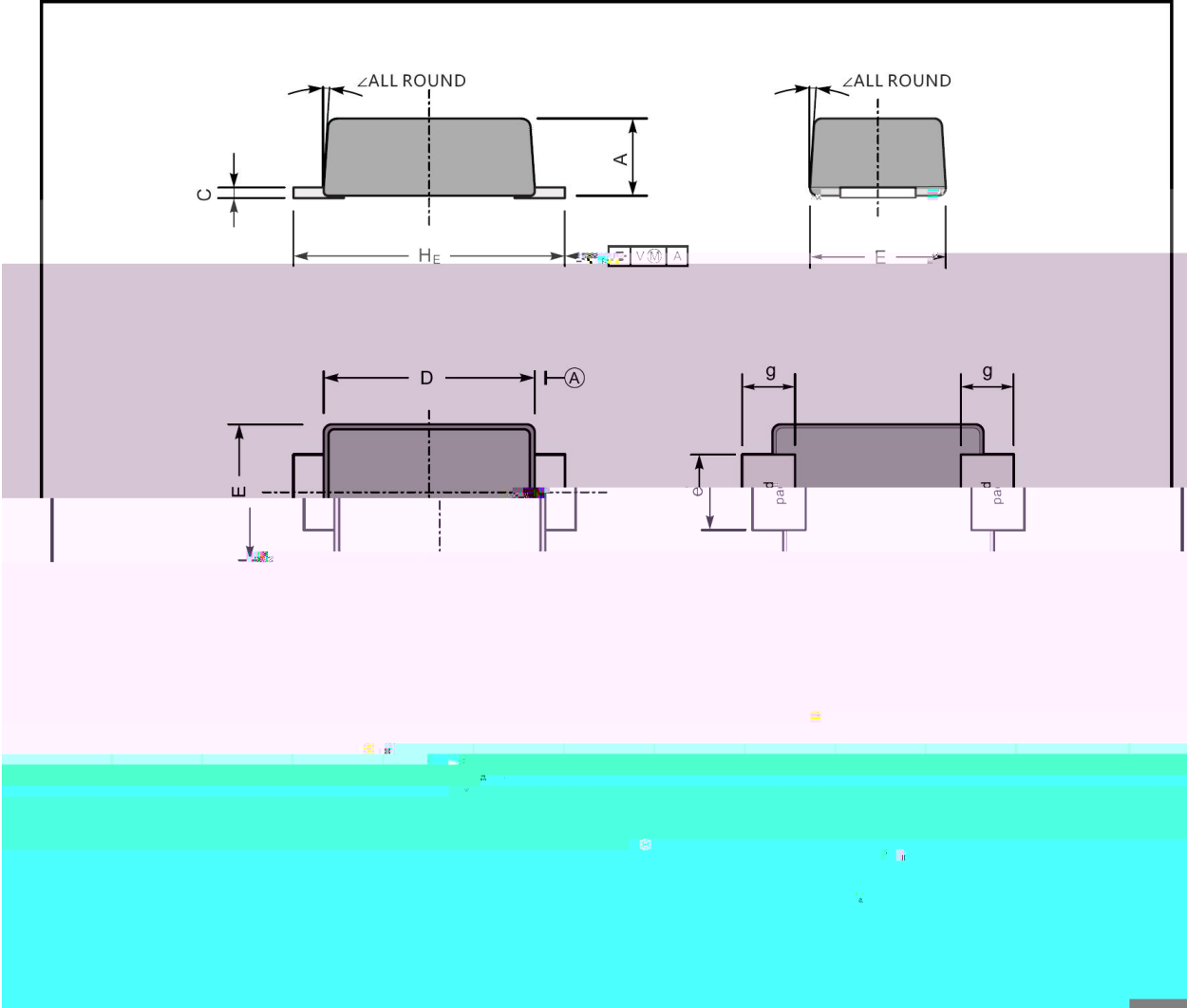
Fig. 1

Fig. 2 Typical Transient Thermal Impedance

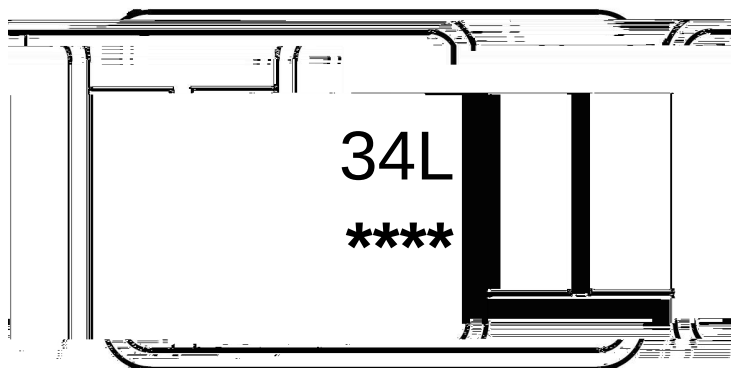
Fig. 4 Maximum Non-Repetitive Reverse Current

/ 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;

245±5

5±0.5sec;
- 1.Preheating:150~180 , Time:60~90sec.

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3