

/ 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.

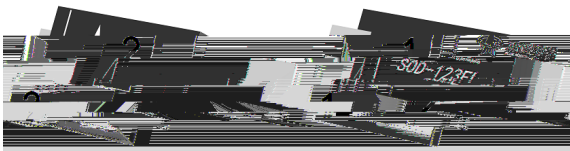
/ Applications

General purpose.

/ Equivalent Circuit

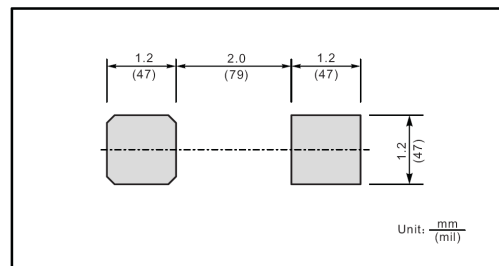


/ Pinning



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	/W
Operating Junction Temperature Range	T_j	-55 ~ +125	
Storage Temperature Range	T_{stg}	-55 ~ +125	

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	$T_a=25$	1.0	mA
		$T_a=100$	20	

/ Electrical Characteristic Curve

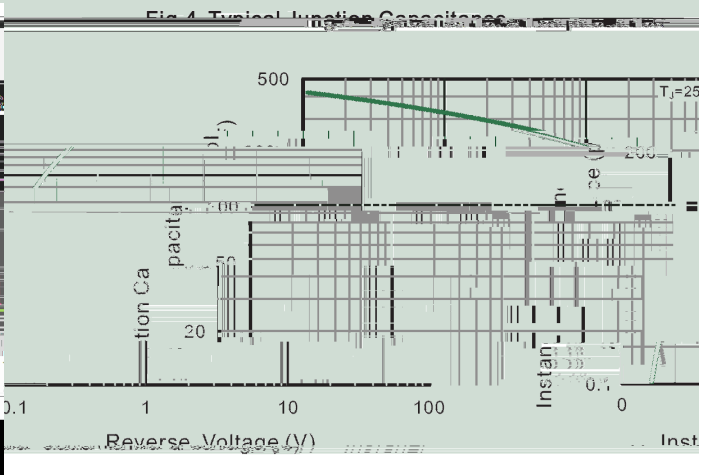
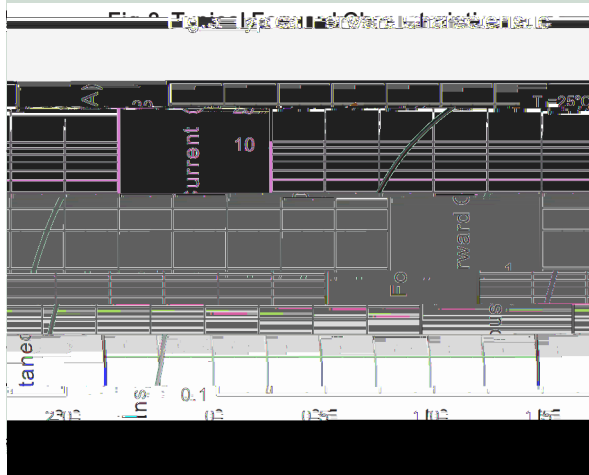
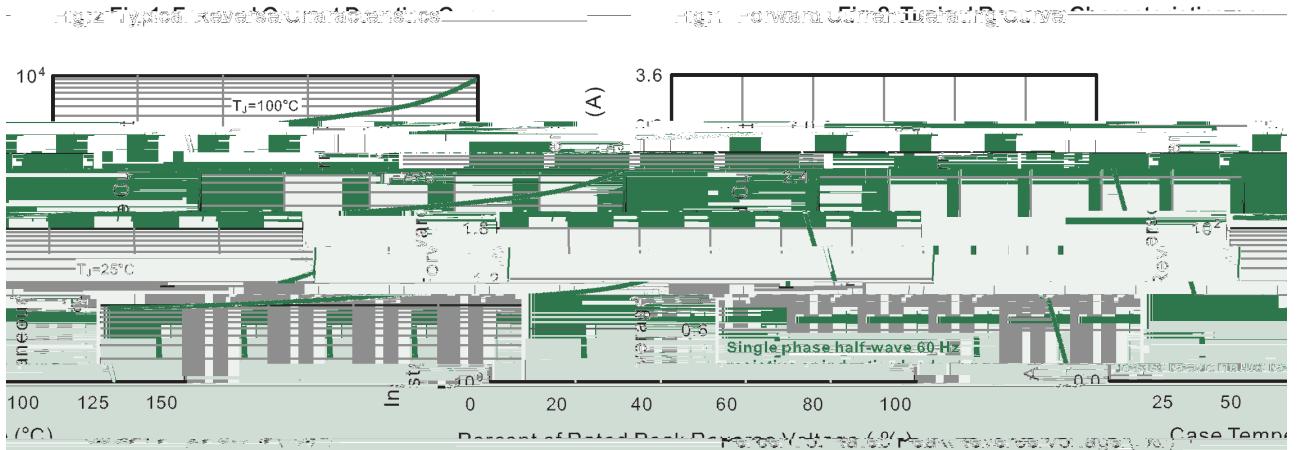


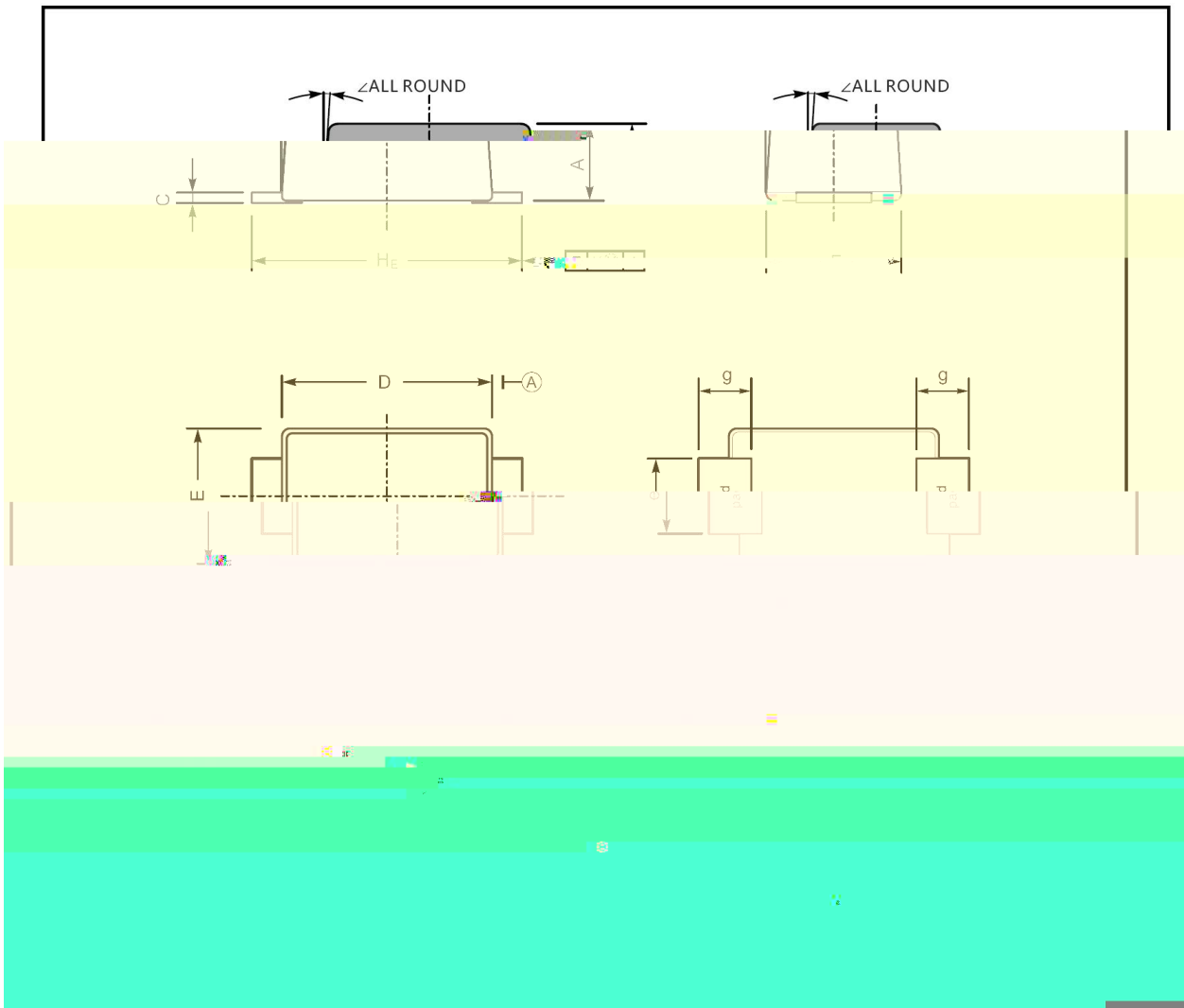
Fig. 2 Typical Reverse Current vs. Case Temperature

Fig. 3 Typical Forward Characteristics

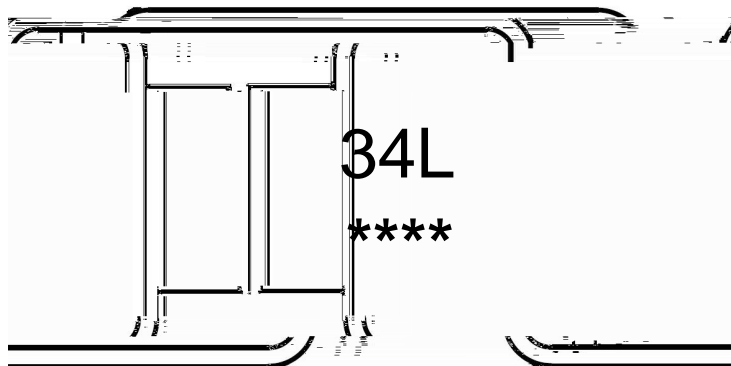
Fig. 4 Typical Junction Capacitance

/ 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