/ Descriptions

40V 3.0A SOD-123FL

Surface Mount Schottky Barrier Rectifier˘ Reverse Voltage˙ 40V˘ Forward Current˙ 3.0A˘ SOD-123FL thin package Â

/ 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

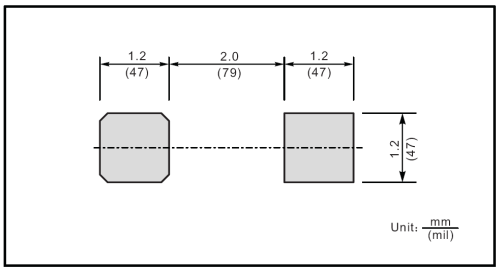
General purpose.

/ 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	$I_{F\cdot AV\cdot}$	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	Ņ/W
Operating Junction Temperature Range	T_j	-55 ~ +125	Ņ
Storage Temperature Range	T_{stg}	-55 ~ +125	Ņ

Note:

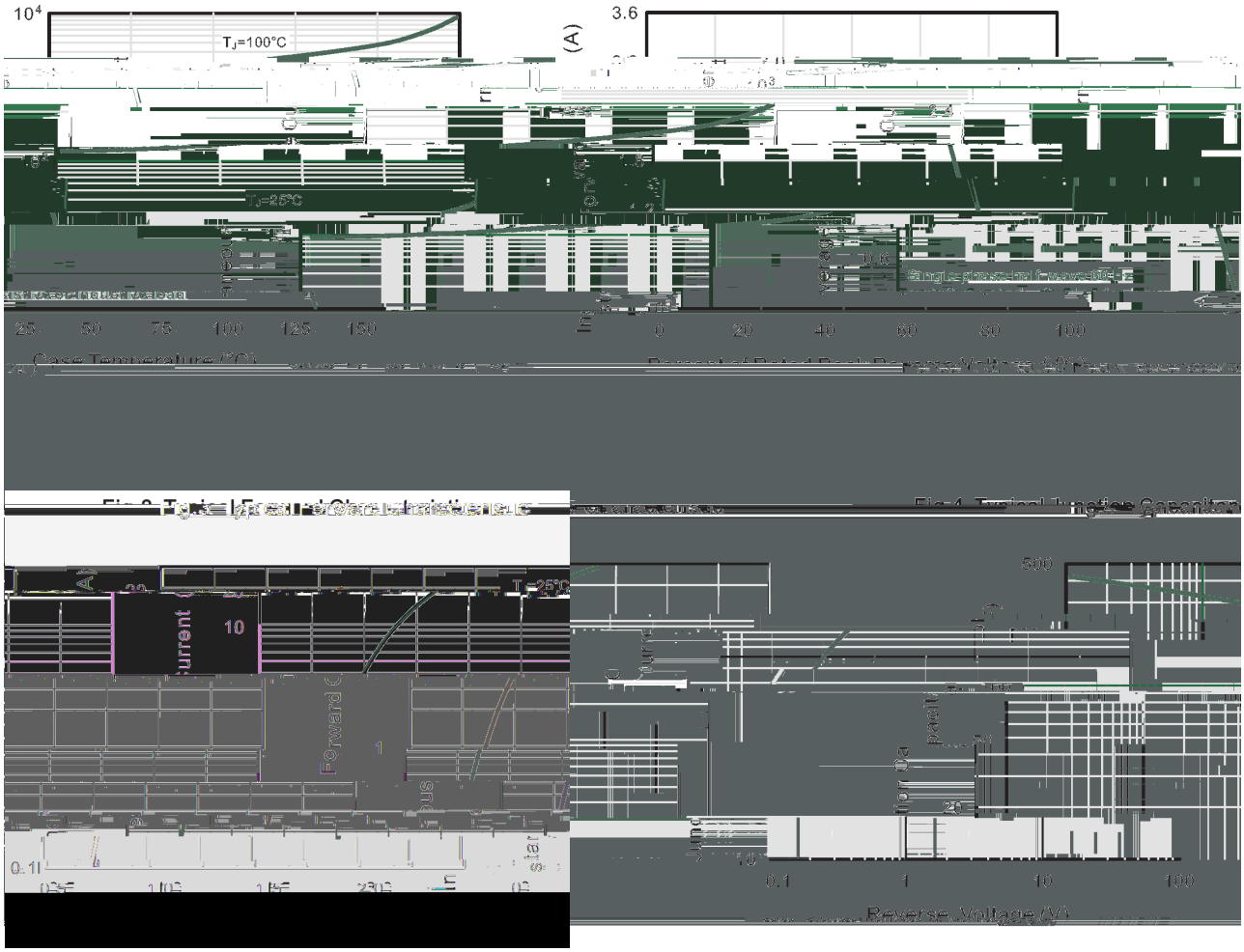
1 Measured at 1MHz and applied reverse voltage of 4 V D.C.

2 P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

/ Electrical Characteristics(Ta=25)

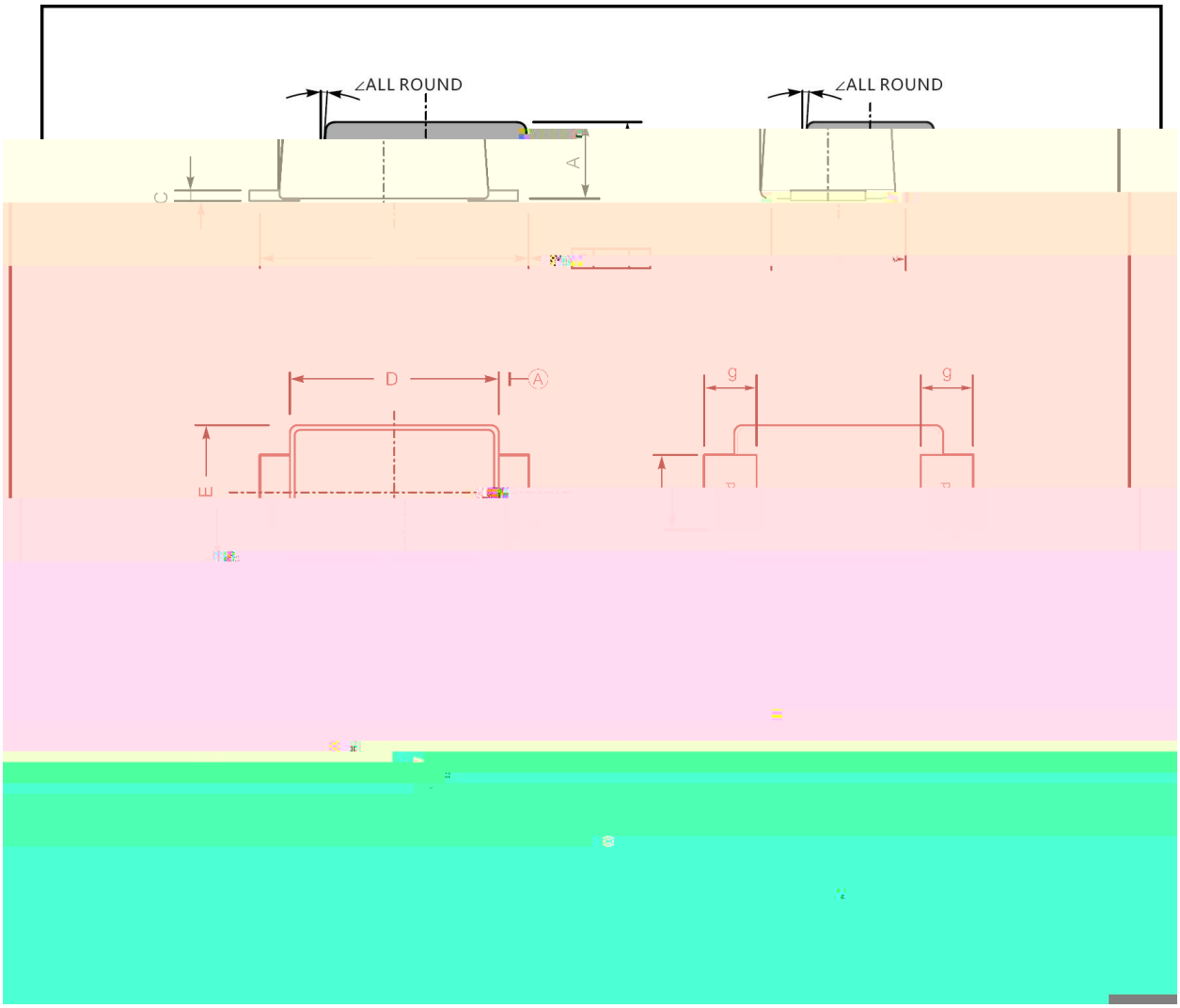
Parameter	Symbol	Test Conditions	Rating	Unit
			DSL34W	
Maximum Instantaneous Forward Voltage	V_F	I_F=3.0A	0.45	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T_a=25Ņ	1.0	mA
		T_a=100Ņ	20	

/ Electrical Characteristic Curve



/ Package Dimensions

SOD-123FL



/ Marking Instructions

34L
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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				