/ Descriptions

40V 5.0A SMA

Surface Mount Schottky Barrier Rectifier, Reverse Voltage:40V, Forward Current:5.0A,SMA package.

/ Features

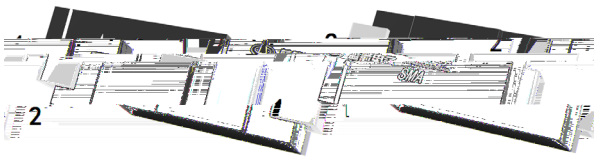
Low power loss, high efficiency, High forward surge current capability, For use in low voltage, high frequency inverters, and polarity protection applications,For surface mounted applications,HF product.

/ Applications

General purpose.

/ Equivalent Circuit

/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Maximum Repetitive 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 at Tc=100°C	$I_{F\ AV}$	5	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	150	A
Typical Junction Capacitance[1)]	C_i	800	pF
Typical Thermal Resistance[2)]	$R_{\ JA}$	45	/W
Operating Junction Temperature Range	T_j	-55 ~ +150	
Storage Temperature Range	T_{stg}	-55 ~ +150	

Note:

1 Measured at 1 MHz 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
Max Instantaneous Forward Voltage	V_F	I_F=5.0A	0.45	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	T_a=25	1.0	mA
		T_a=100	50	

/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

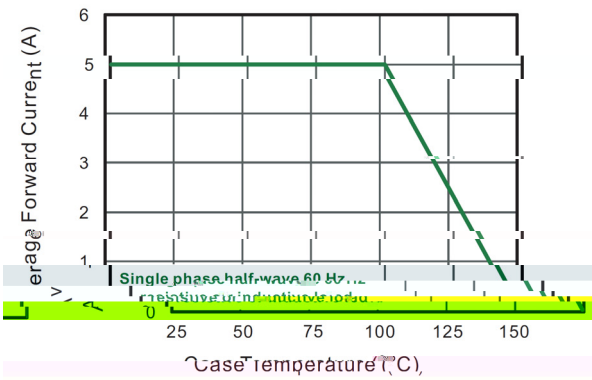


Fig.2 Typical Reverse Characteristics

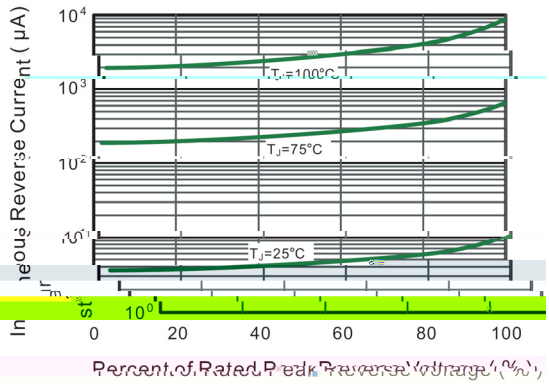


Fig.3 Typical Forward Characteristic

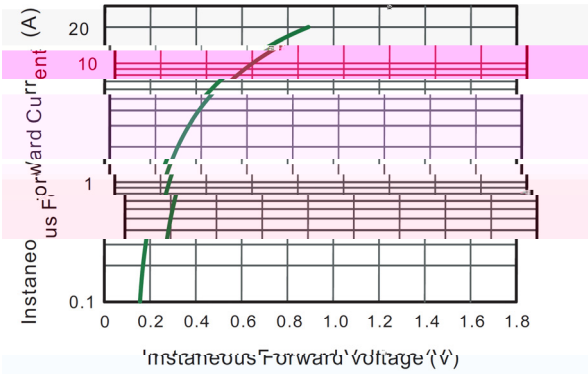


Fig.4 Typical Junction Capacitance

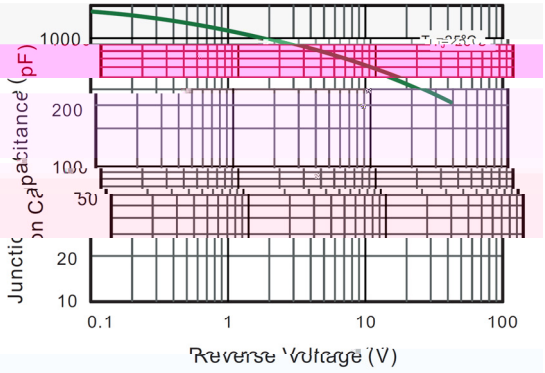


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

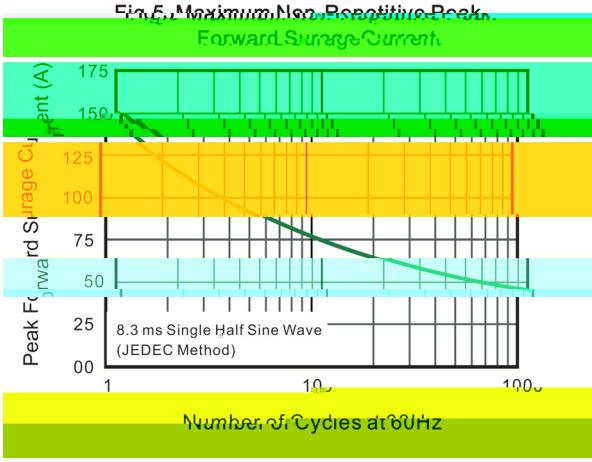
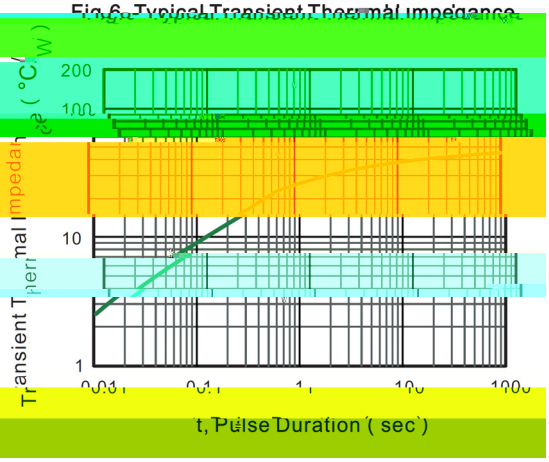
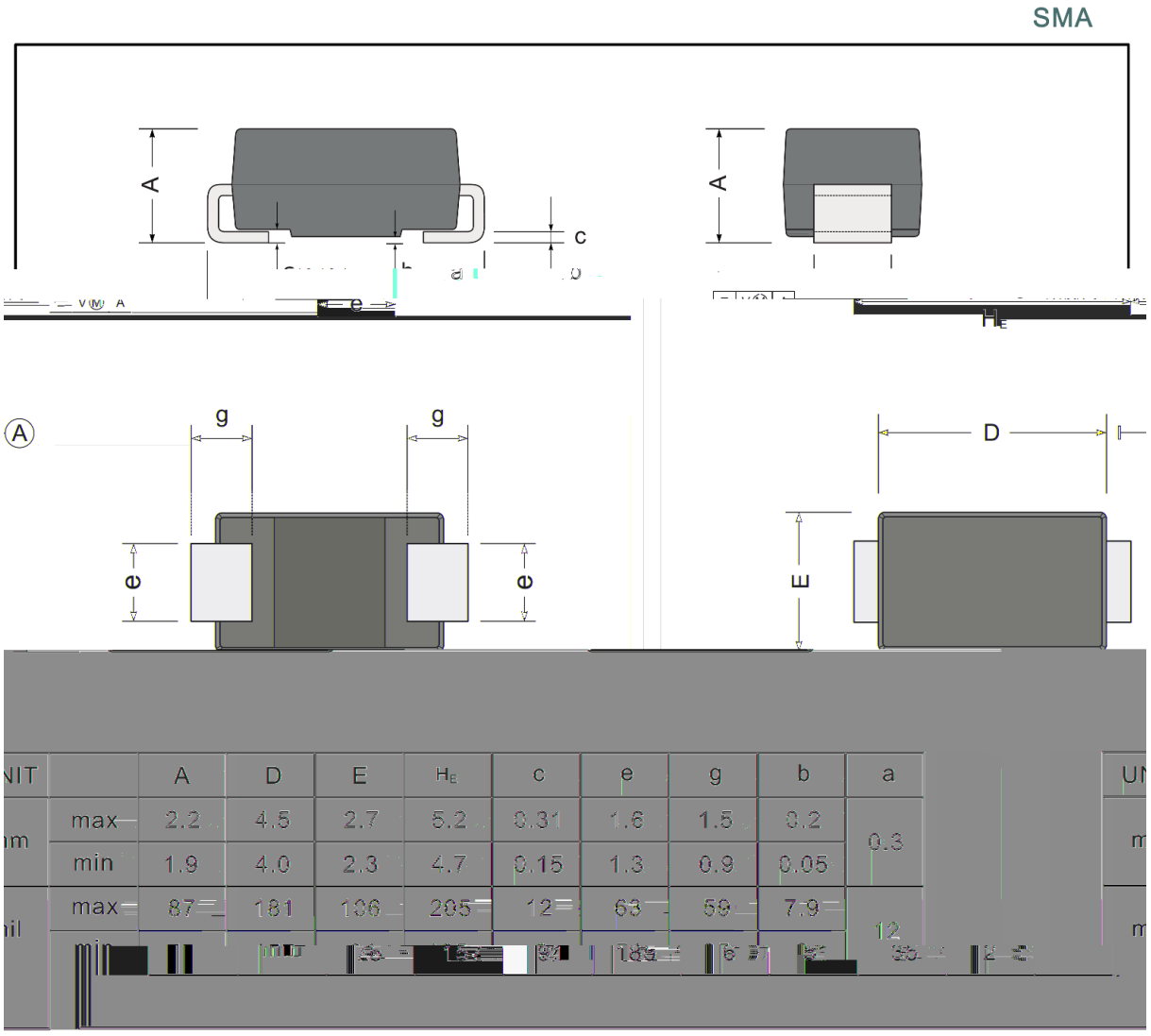


Fig.6 Typical Transient Thermal Impedance



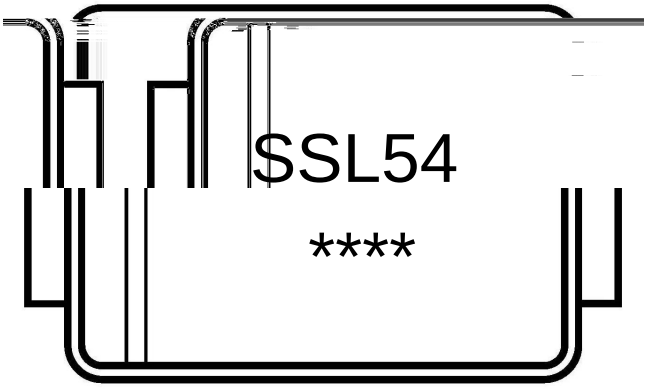
/ Package Dimensions

SMA



NIT		A	D	E	H_E	c	e	g	b	a	UN
m	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.2	0.3	m
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	0.05		
il	max	87	181	106	205	12	63	59	7.9	12	m
	min										

/ Marking Instructions



SSL54

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Note:

SSL54 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 mm³)
	Units/Reel /	Reels/Inner Box /	