

/ Descriptions

SMAF

Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 60V, Forward Current: 3.0A ,SMAF 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.

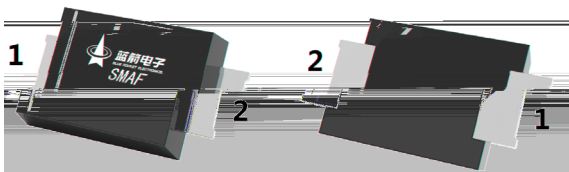
/ Applications

General purpose.

/ Equivalent Circuit

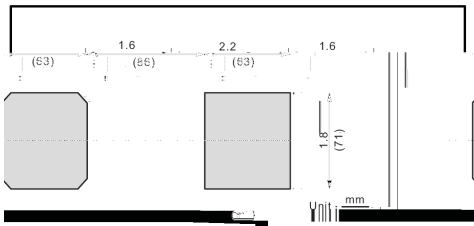


/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current at Tc= 100 °C	$I_F (AV)$	3.0	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	80	A
Typical Junction Capacitance ¹⁾	C_i	400	pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	60	°C/W
Operating Junction Temperature Range	T_j	-55~150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

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	数值 Rating	Unit
Max Instantaneous Forward Voltage	V_F	$I_F=3.0A$	0.5	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	$T_a=25$	0.5	mA
		$T_a=100$	5.0	

Electrical Characteristic Curve

Fig.1 Forward Current Deration Curve

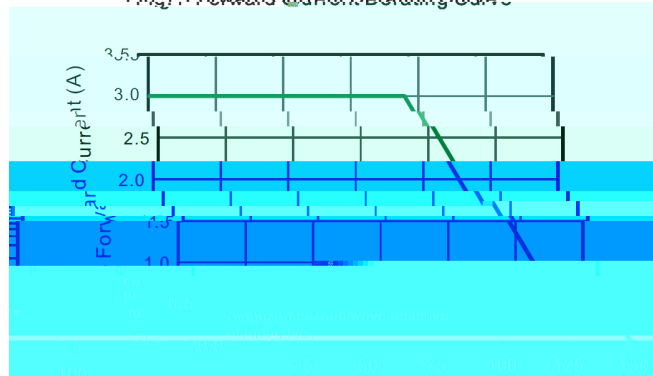
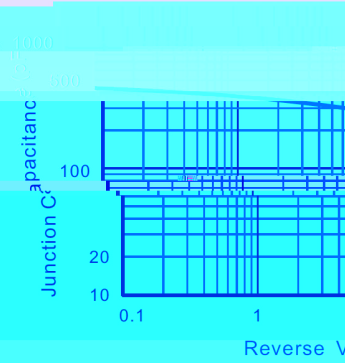
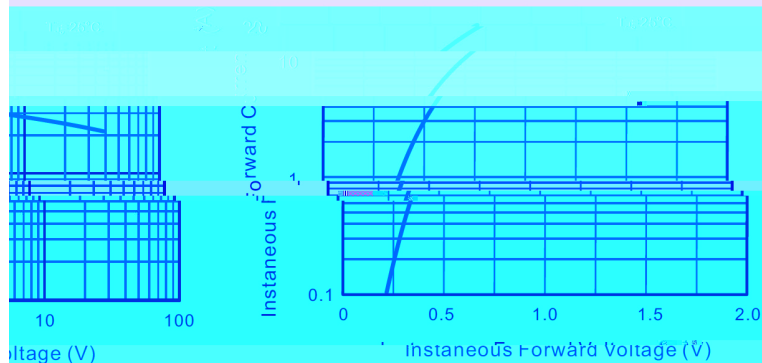
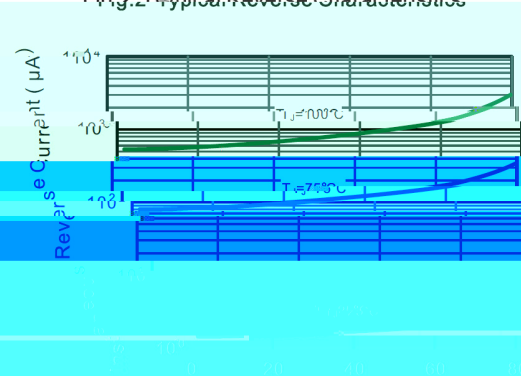


Fig.2 Typical Reverse Characteristics



Thermal Impedance

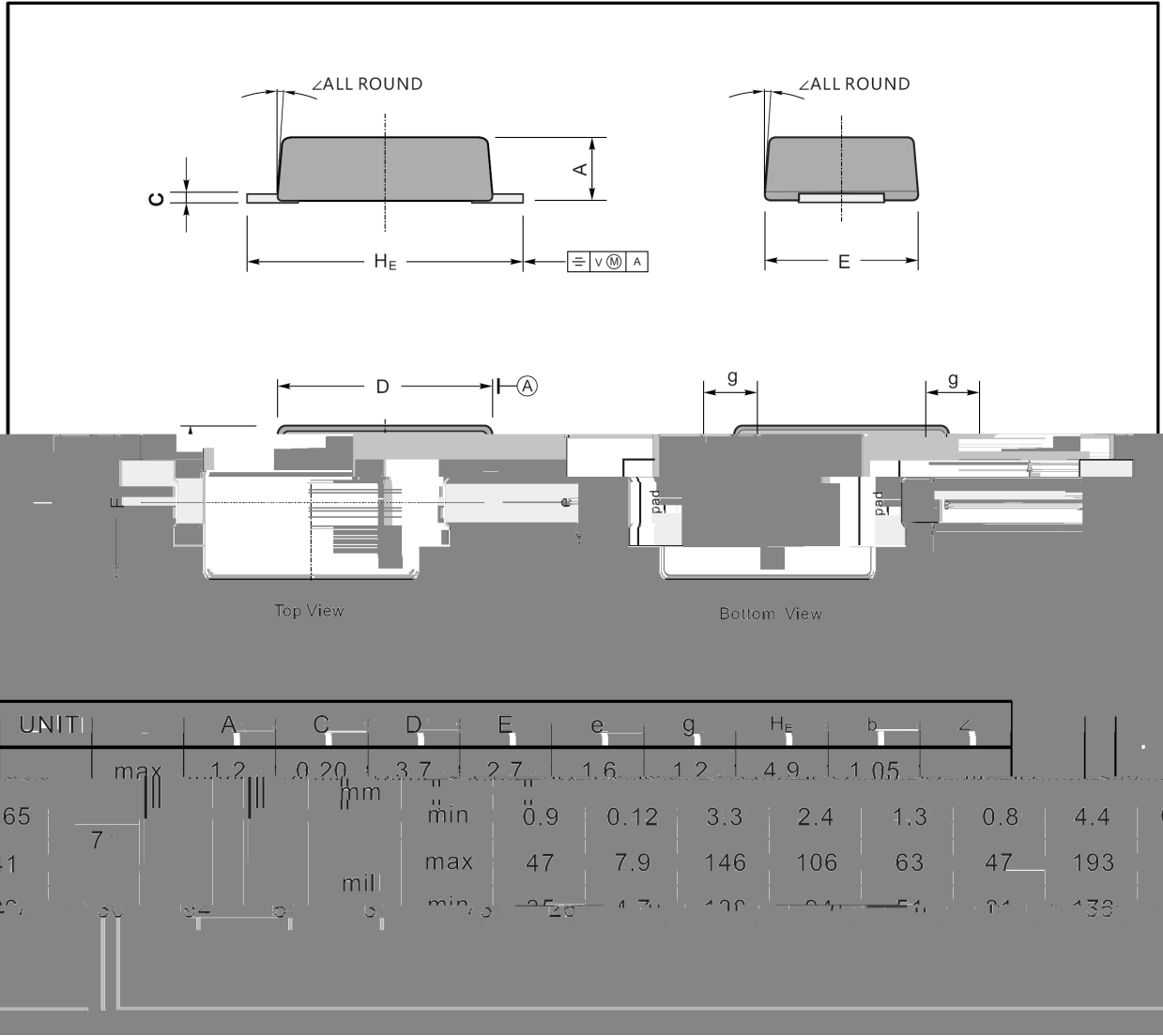
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



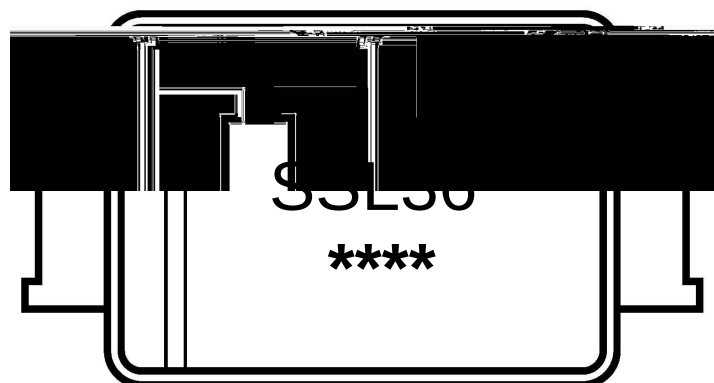
Fig.5- Typical Transient



/ Package Dimensions



/ Marking Instructions

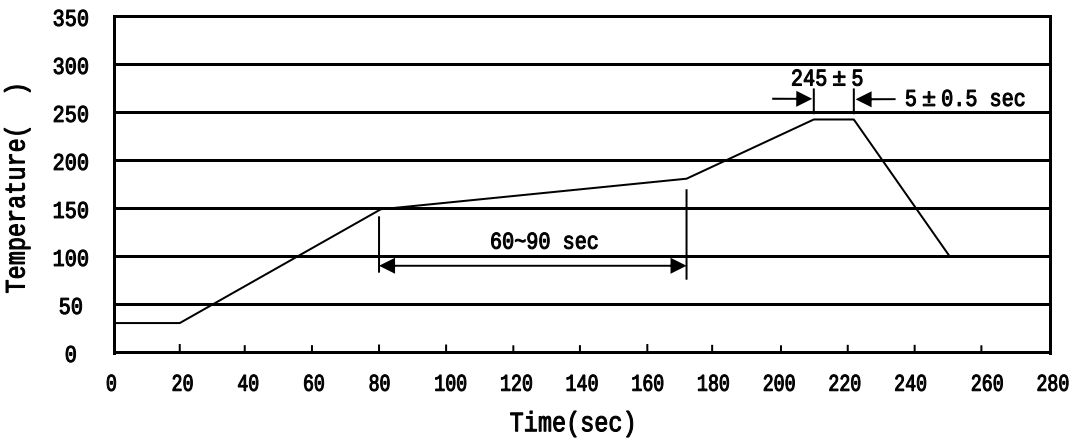


Note:

Product Type Code

Lot No. Code, code change with Lot No

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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)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SMAF	3,000	5	15,000	6	90,000	7" ×12	185×180×105	390×385×205

/ Notices