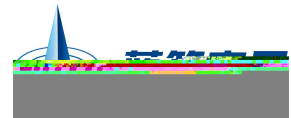


/ Revised record

| | | | | | |
|---|-----------|-----|---|--|--|
| | | | | | |
| A | 2019-7-18 | ALL | SMA-S-SSL36-3A60V | | |
| B | 2021-6-7 | 4/7 | b 5 50000 7 70000 340X340X40、350X350X230 336X336X40、380X335X366 | | |
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SSL36

Rev.B Jun.-2021



DATA SHEET

/ Descriptions

60V 3.0A SMA

Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 60V, Forward Current: 3.0A ,SMA 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.Halogen free product.

/ Applications

General purpose.

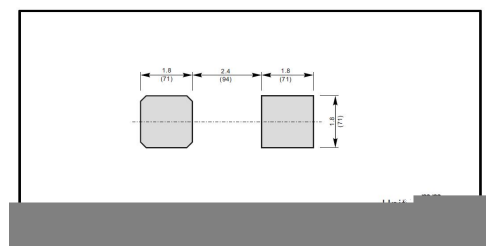
/ Equivalent Circuit



/ Pinning

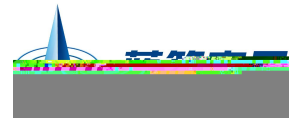


The recommended mounting pad size



/ Marking

See Marking Instructions.



/ Absolute Maximum Ratings(Ta=25)

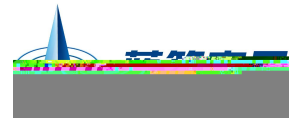
| 参数 Parameter | 符号 Symbol | 数值 Rating | 单位 Unit |
|---|--------------|--------------|---------------------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 60 | V |
| Maximum RMS voltage | V_{RMS} | 42 | V |
| Maximum DC Blocking Voltage | V_{DC} | 60 | V |
| Maximum Average Forward Rectified Current at $T_c=100\text{ }^\circ\text{C}$ | $I_{F(AV)}$ | 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_{JA} | 60 | $^\circ\text{C}/\text{W}$ |
| Operating Junction Temperature Range | T_j | -55~150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ\text{C}$ |

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)

| 参数 Parameter | 符号 Symbol | 测试条件 Test Conditions | 数值 Rating | 单位 Unit |
|--|--------------|-------------------------|--------------|------------|
| Max Instantaneous Forward Voltage | V_F | $I_F=3.0\text{A}$ | 0.5 | V |
| Maximum DC Reverse Current at Rated DC Reverse Voltage | I_R | $T_a=25$ | 0.3 | mA |
| | | $T_a=100$ | 5.0 | |



/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

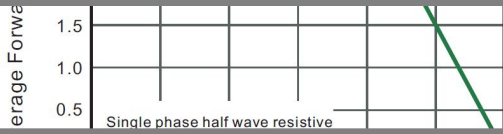
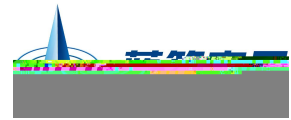


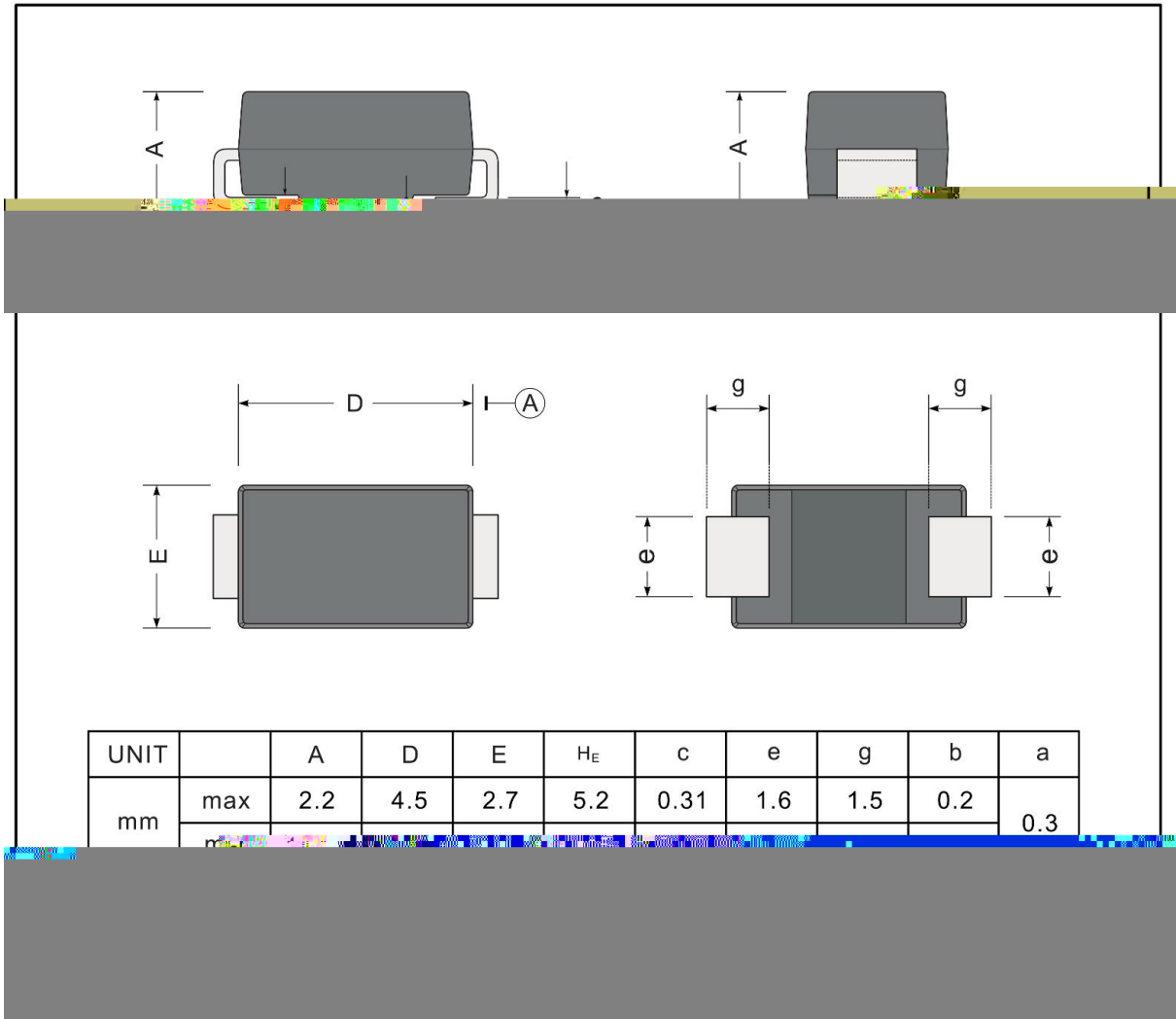
Fig.2 Typical Reverse Current





/ Package Dimensions

SMA



/ **Marking Instructions**



SSL36

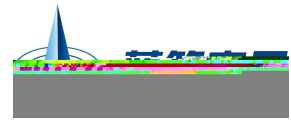
1

3

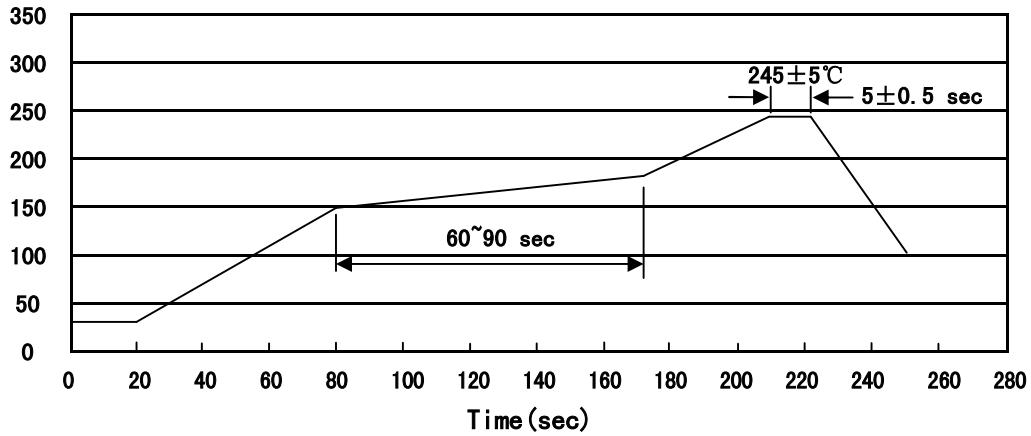
Note:

SSL36 Product Type Code

**** Lot No. Code The 1st means:YM Code The last 3 means:little Lot No Code



() /



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|--|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | | 2 | 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C Time:10±1 sec

/ Packaging SPEC.

/ REEL

| Package Type | Units | | | | | Dimension (unit mm ³) | | |
|--------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|-----------------------------------|------------|-------------|
| | Units/Reel 只/卷盘 | Reels/Inner Box 卷盘/盒 | Units/Inner Box 只/盒 | Inner Boxes/Outer Box 盒/箱 | Units/Outer Box 只/箱 | Reel | Inner Box | Outer Box |
| SMA | 5000 | 2 | 10000 | 7 | 70000 | 13" x12 | 336X336X40 | 380X335X366 |

/ Notices