

描述 / Descriptions

表面贴装肖特基整流二极管，反向电压：20V~200V，正向电流：3.0A，SMA封装。

Surface Mount Schottky Barrier Rectifiers, Reverse Voltage : 20 to 200V, Forward Current: 3.0A, SMA package.

特征 / Features

低功耗，高效率，高正向浪涌电流能力，无铅符合欧盟 RoHS 指令 2011/65/EU，适用表面贴装。无卤产品。

Low power loss, high efficiency, High forward surge current capability, Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications. HF product.

用途 / Applications

一般用途。

General purpose.

内部等效电路 / Equivalent Circuit

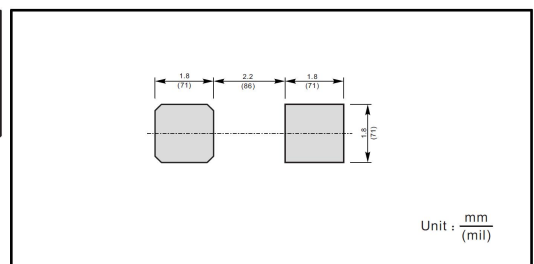


引脚排列 / Pinning



| PIN | DESCRIPTION |
|-----|-------------|
| 1 | Cathode |
| 2 | Anode |

The recommended mounting pad size



印章代码 / Marking

见印章说明。 See Marking Instructions.

极限参数 / Absolute Maximum Ratings(Ta=25°C)

| 参数 Parameter | 符号 Symbol | 数值 Rating | | | | | | | | | 单位 Unit |
|---|-----------------|--------------|------|-------|------|------|-------|-------|-------|-------|------------|
| | | SS32 | SS34 | SS345 | SS36 | SS38 | SS310 | SS312 | SS315 | SS320 | |
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 20 | 40 | 45 | 60 | 80 | 100 | 120 | 150 | 200 | V |
| Maximum RMS voltage | V_{RMS} | 14 | 28 | 31.5 | 42 | 56 | 70 | 84 | 105 | 140 | V |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 40 | 45 | 60 | 80 | 100 | 120 | 150 | 200 | V |
| Maximum Average Forward Rectified Current | $I_{F(AV)}$ | 3.0 | | | | | | | | | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) | I_{FSM} | 80 | | | | | | | | | A |
| Typical Junction Capacitance | C_j | 250 | | | 180 | | | | | | pF |
| Typical Thermal Resistance ¹⁾ | $R_{\theta JA}$ | 70 | | | | | | | | | °C/W |
| Operating and Storage Temperature Range | T_j, T_{stg} | -55~+150 | | | | | | | | | °C |

Note:

1) P.C.B. mounted with 2.0 X 2.0" (5 X5 cm) copper pad areas.

电性能参数 / Electrical Characteristics(Ta=25°C)

| 参数 Parameter | 符号 Symbol | 测试条件 Test Conditions | 数值 Rating | | | | | | | | | 单位 Unit |
|---|--------------|-------------------------|--------------|------|-------|------|------|-------|-------|-------|-------|------------|
| | | | SS32 | SS34 | SS345 | SS36 | SS38 | SS310 | SS312 | SS315 | SS320 | |
| Maximum Instantaneous Forward Voltage | V_F | $I_F=3.0A$ | 0.55 | | | 0.70 | 0.85 | | | 0.95 | V | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I_R | $T_a=25^\circ C$ | 0.5 | | | 0.3 | | | | | | mA |
| | | $T_a=100^\circ C$ | 5.0 | | | 3.0 | | | | | | mA |

电参数曲线图 / Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

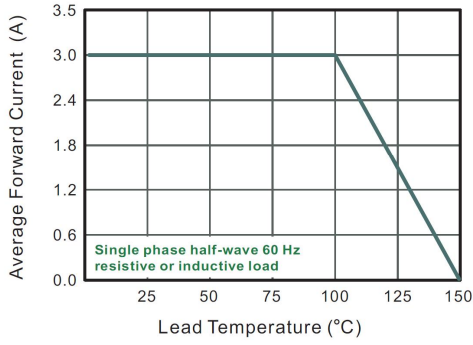


Fig.2 Typical Reverse Characteristics

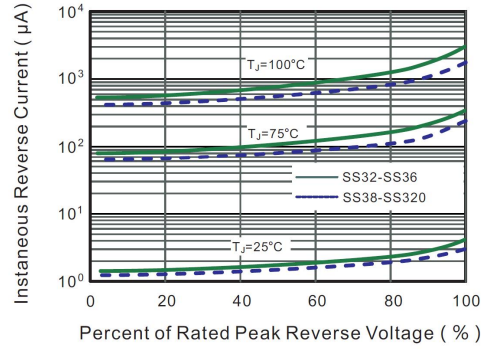


Fig.3 Typical Forward Characteristic

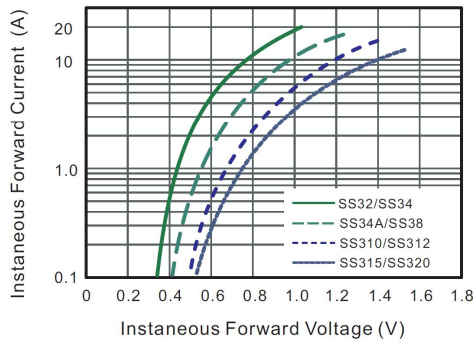


Fig.4 Typical Junction Capacitance

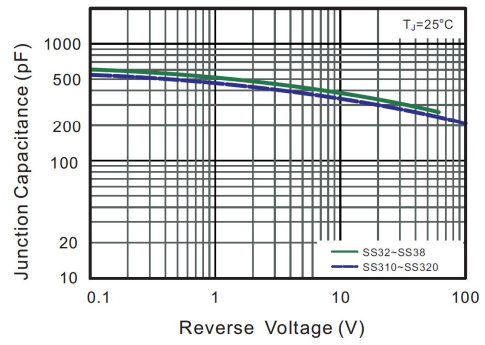


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

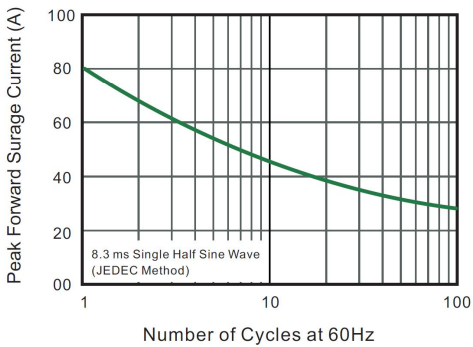
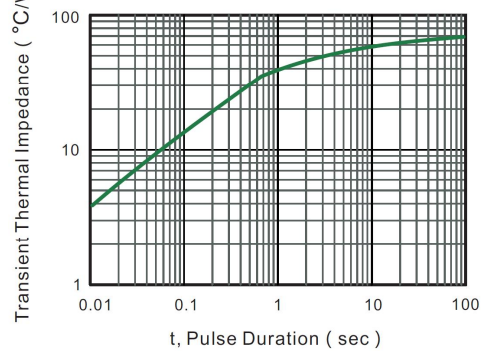
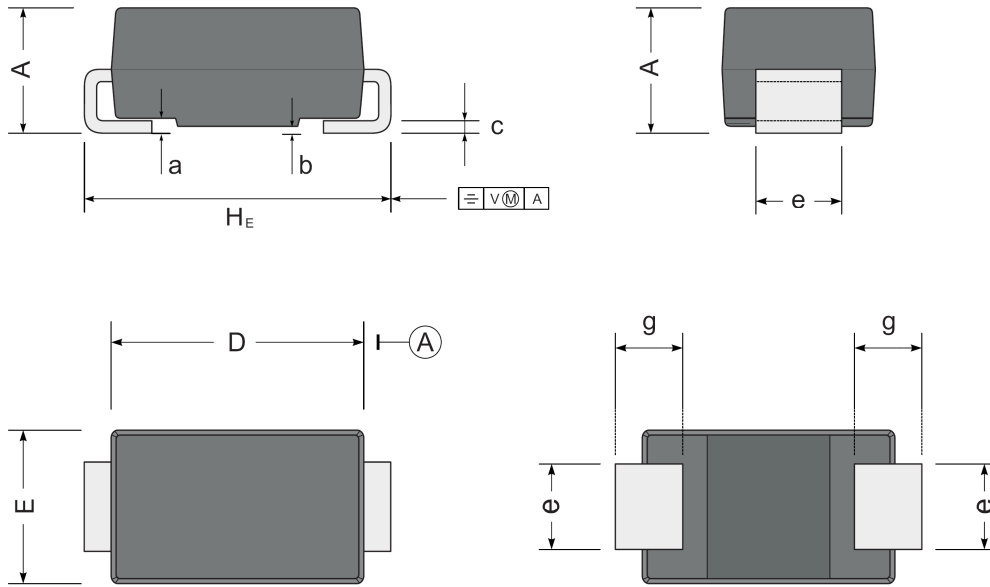


Fig.5- Typical Transient Thermal Impedance



外形尺寸图 / Package Dimensions

SMA

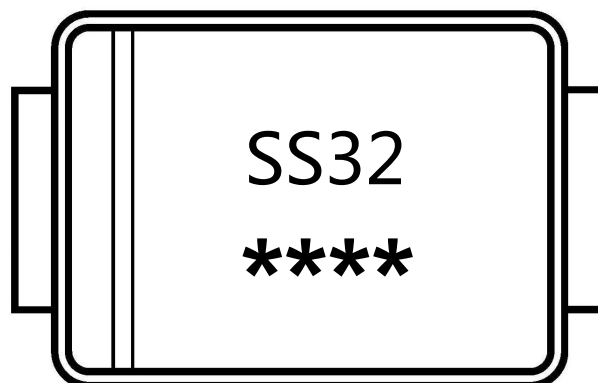


| UNIT | | A | D | E | H _E | c | e | g | b | a |
|------|-----|-----|-----|-----|----------------|------|-----|-----|------|-----|
| mm | max | 2.2 | 4.5 | 2.7 | 5.2 | 0.31 | 1.6 | 1.5 | 0.2 | 0.3 |
| | min | 1.9 | 4.0 | 2.3 | 4.7 | 0.15 | 1.3 | 0.9 | 0.05 | |
| mil | max | 87 | 181 | 106 | 205 | 12 | 63 | 59 | 7.9 | 12 |
| | min | 75 | 157 | 91 | 185 | 6 | 51 | 35 | 2 | |

Marking

| Type number | Marking code |
|-------------|--------------|
| SS32 | SS32 |
| SS34 | SS34 |
| SS34A | SS34A |
| SS36 | SS36 |
| SS38 | SS38 |
| SS310 | SS310 |
| SS312 | SS312 |
| SS315 | SS315 |
| SS320 | SS320 |

印章说明 / Marking Instructions



说明：

SS32： 为型号代码

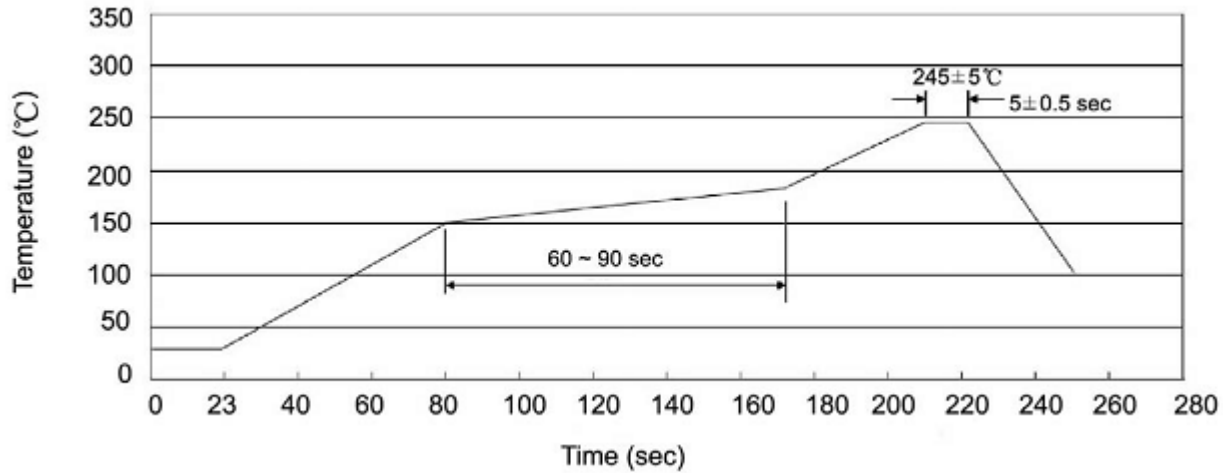
****： 为生产批号追溯码，第1个*为年月代码，后面3个*为当月小批号代码

Note:

SS32： Product Type Code

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

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)



说明：

- 1、预热温度 25 ~ 150°C，时间 60 ~ 90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

包装规格 / Packaging SPEC.

卷盘包装 / REEL

| Package Type 封装形式 | Units 包装数量 | | | | | Dimension 包装尺寸 (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 盒 | Outer Box 箱 |
| SMA | 5000 | 2 | 10000 | 7 | 70000 | 13" ×12 | 336X336X40 | 380X335X366 |

使用说明 / Notices

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