

/ Revised record

| A | 2017-3    | ALL   |                                                                                            |  |  |
|---|-----------|-------|--------------------------------------------------------------------------------------------|--|--|
| B | 2021-3-15 | 2 4 6 | IFSM70 IFSM 50<br>b 5<br>50000 7 70000<br>340X340X40、350X350X230<br>336X336X40、380X335X366 |  |  |
|   |           |       |                                                                                            |  |  |
|   |           |       |                                                                                            |  |  |
|   |           |       |                                                                                            |  |  |
|   |           |       |                                                                                            |  |  |
|   |           |       |                                                                                            |  |  |
|   |           |       |                                                                                            |  |  |
|   |           |       |                                                                                            |  |  |
|   |           |       |                                                                                            |  |  |
|   |           |       |                                                                                            |  |  |

## / Descriptions

50V~1000V 2.0A SMA

Surface Mount General Purpose Silicon Rectifiers, Reverse Voltage 50 to1000V,Forward Current:2.0A ,SMA package.

## / Features

RoHS 2011/65/EU

Glass Passivated Chip Junction, Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications. HF product.

## / Applications

General purpose.

## / Equivalent Circuit



## / Pinning

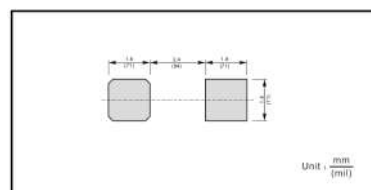
1



2

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

The recommended mounting pad size



## / Marking

See Marking Instructions.

| Parameter                                                                                         | Symbol          | Rating   |     |     |     |     |     |      | Unit |
|---------------------------------------------------------------------------------------------------|-----------------|----------|-----|-----|-----|-----|-----|------|------|
|                                                                                                   |                 | S2A      | S2B | S2D | S2G | S2J | S2K | S2M  |      |
| Maximum Repetitive Peak Reverse Voltage                                                           | $V_{RRM}$       | 50       | 100 | 200 | 400 | 600 | 800 | 1000 | V    |
| Maximum RMS voltage                                                                               | $V_{RMS}$       | 35       | 70  | 140 | 280 | 420 | 560 | 700  | V    |
| Maximum DC Blocking Voltage                                                                       | $V_{DC}$        | 50       | 100 | 200 | 400 | 600 | 800 | 1000 | V    |
| Maximum Average Forward Rectified Current                                                         | $I_F (AV)$      | 2.0      |     |     |     |     |     |      | A    |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) | $I_{FSM}$       | 50       |     |     |     |     |     |      | A    |
| Typical Junction Capacitance at $V_R=4V$ $f=1MHz$                                                 | $C_j$           | 25       |     |     |     |     |     |      | pF   |
| Typical Thermal Resistance <sup>1)</sup>                                                          | $R_{\theta JA}$ | 65       |     |     |     |     |     |      | °C/W |
| Operating and Storage Temperature Range                                                           | $T_j, T_{stg}$  | -55~+150 |     |     |     |     |     |      | °C   |

Note:

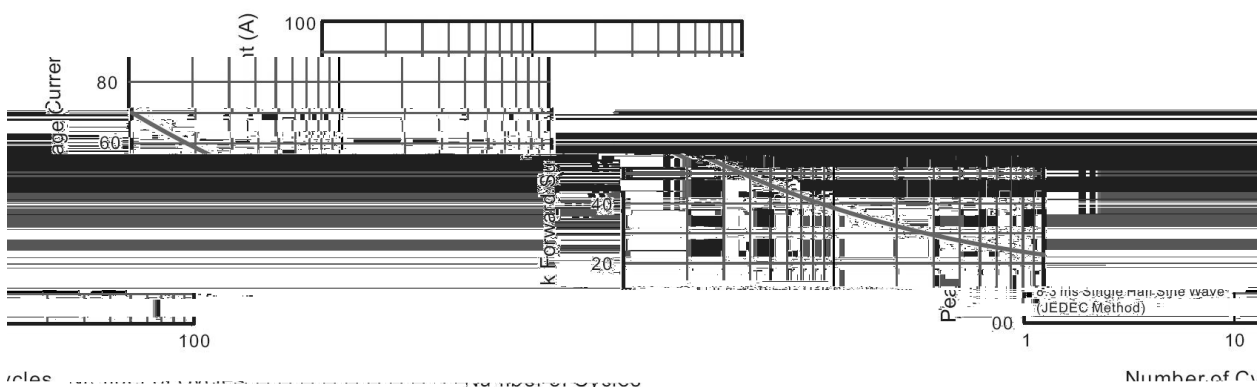
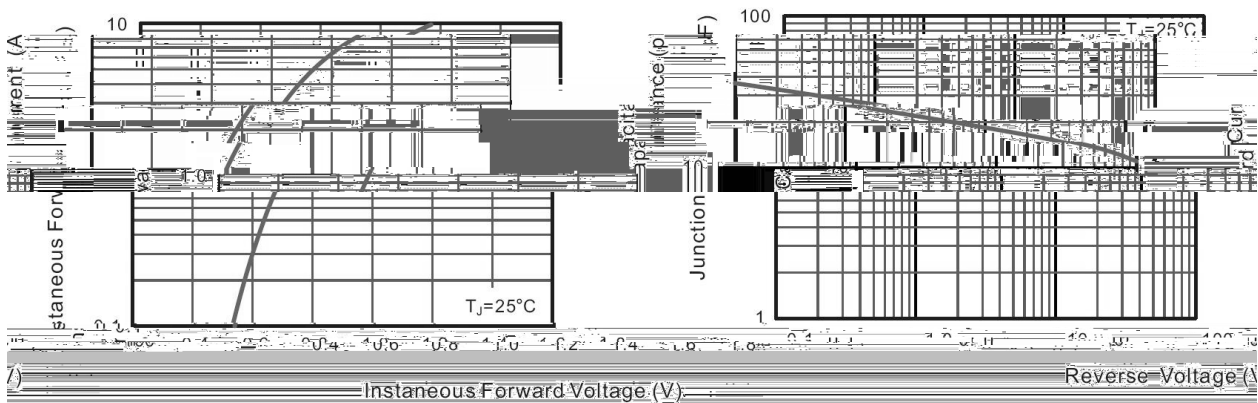
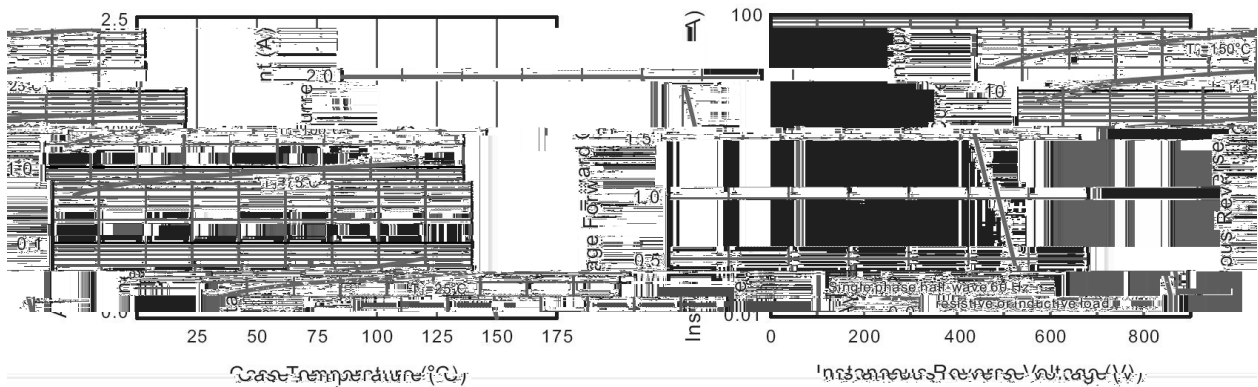
1) P.C.B. mounted with

in

ed

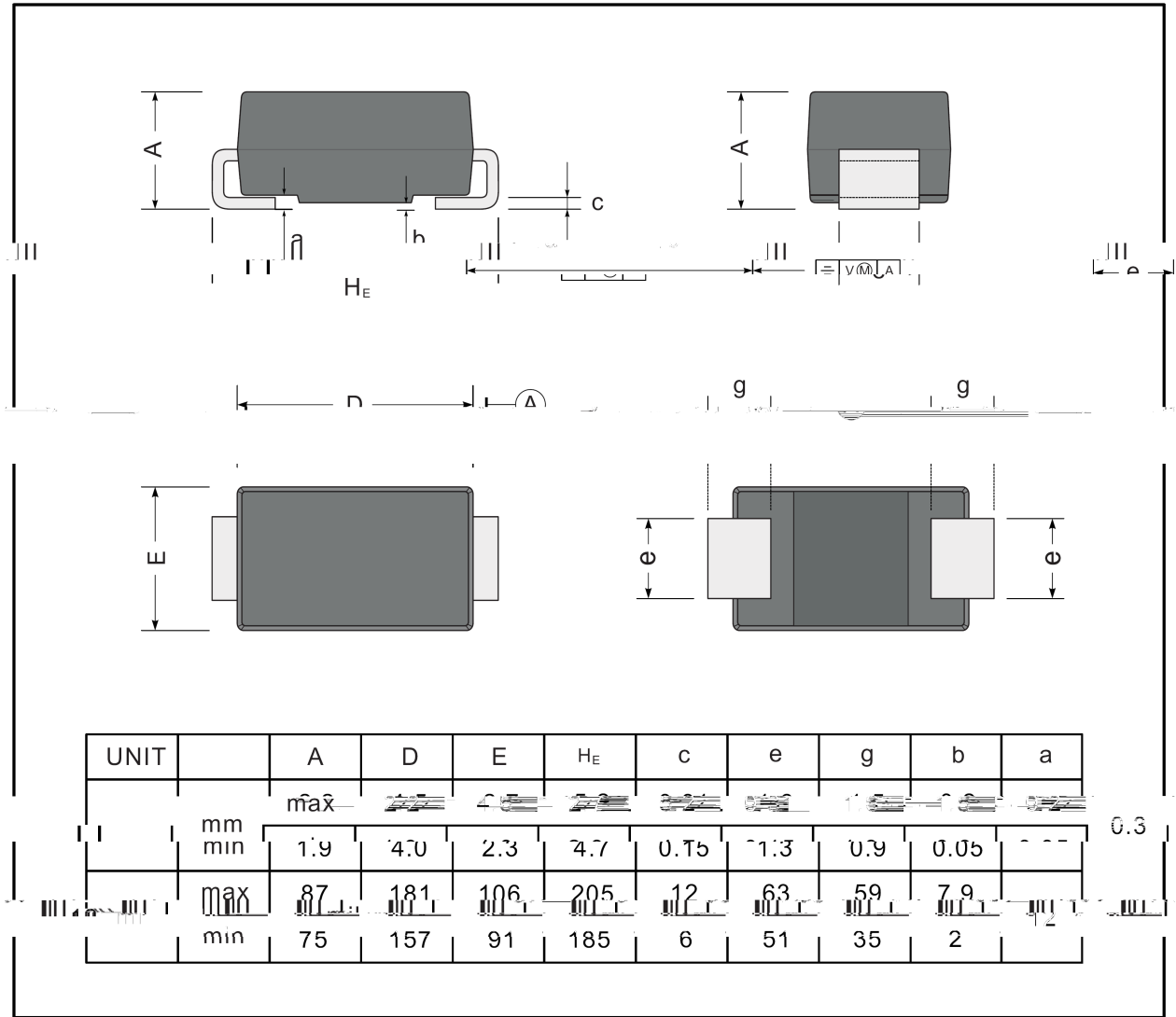
v in

/ Electrical Characteristic Curve



/ Package Dimensions

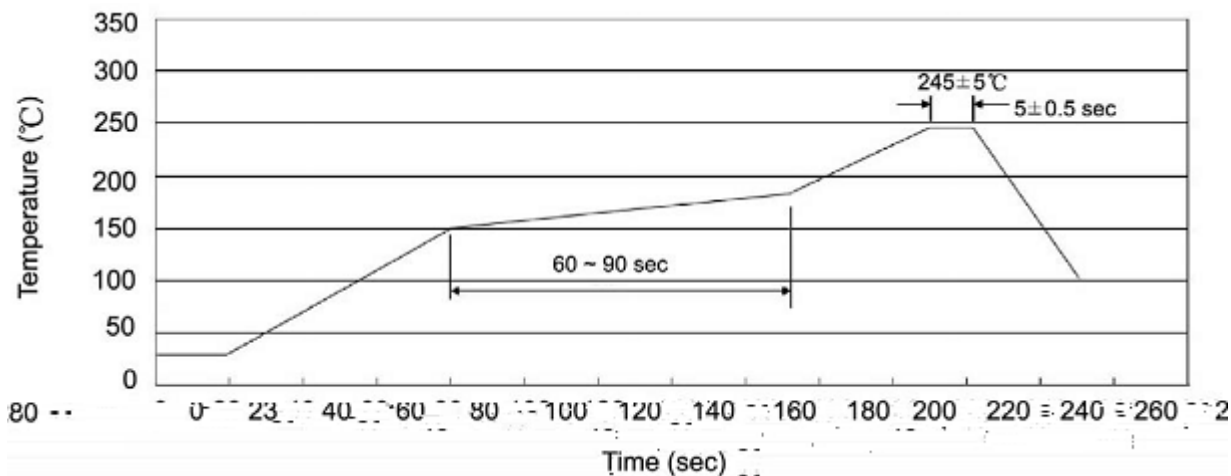
SMA



/ Marking Instructions

| Type number | Marking code |
|-------------|--------------|
| S2A         | S2A          |
| S2B         | S2B          |
| S2D         | S2D          |
| S2G         | S2G          |
| S2J         | S2J          |
| S2K         | S2K          |
| S2M         | S2M          |

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- |   |       |     |           |        |                                         |
|---|-------|-----|-----------|--------|-----------------------------------------|
| 1 | 25    | 150 | 60        | 90sec; | 1.Preheating:25~150 , 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<br>封装形式 | Units 包装数量         |                         |                        |                              |                        | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |             |             |
|----------------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|-----------------------------------------|-------------|-------------|
|                      | Units/Reel<br>只/卷盘 | Reels/Inner Box<br>卷盘/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Reel                                    | Inner Box 盒 | Outer Box 箱 |
| SMA                  | 5000               | 2                       | 10000                  | 7                            | 70000                  | 13" ×12                                 | 336X336X40  | 380X335X366 |

/ Notices