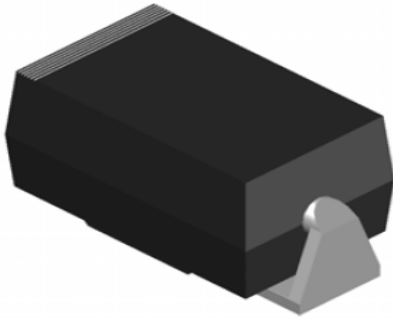
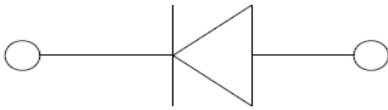


## Surface Mount Schottky Rectifier



### Features

- $I_o$  1.0A
- $V_{RRM}$  20V-100V
- High surge current capability
- Cases: Molded plastic



### ■ Limiting Values (Absolute Maximum Rating)

| Item                                 | Symbol             | Unit | Test Conditions                                 | SS12       | SS13 | SS14 | SS15     | SS16 | SS19 | SS110 |
|--------------------------------------|--------------------|------|-------------------------------------------------|------------|------|------|----------|------|------|-------|
| Repetitive Peak Reverse Voltage      | V <sub>RRM</sub>   | V    |                                                 | 20         | 30   | 40   | 50       | 60   | 90   | 100   |
| Average Forward Current              | I <sub>F(AV)</sub> | A    | 60HZ Half-sine wave, Resistance load, Ta(Fig.1) | 1.0        |      |      |          |      |      |       |
| Surge(Non-repetitive)Forward Current | I <sub>FSM</sub>   | A    | 60Hz Half-sine wave ,1 cycle , Ta=25℃           | 30         |      |      |          |      |      |       |
| Junction Temperature                 | T <sub>J</sub>     | ℃    |                                                 | -55~+125   |      |      | -55~+150 |      |      |       |
| Storage Temperature                  | T <sub>STG</sub>   | ℃    |                                                 | -55 ~ +150 |      |      |          |      |      |       |

Notes 1. Thermal resistance from junction to ambient mounted on P.C.B. with 5.0 mm x 5.0 mm copper heatsink



## SS12 THRU SS110

### ■Electrical Characteristics (T<sub>a</sub>=25℃ unless otherwise specified)

| Item                        | Symbol               | Unit | Test Conditions                   |                     | SS12             | SS13 | SS14 | SS15 | SS16 | SS19 | SS110 |
|-----------------------------|----------------------|------|-----------------------------------|---------------------|------------------|------|------|------|------|------|-------|
| Peak Forward Voltage        | V <sub>F</sub>       | V    | I <sub>F</sub> =1.0A              |                     | 0.55             |      |      | 0.70 |      | 0.85 |       |
| Peak Reverse Current        | I <sub>RRM1</sub>    | mA   | V <sub>RM</sub> =V <sub>RRM</sub> | T <sub>a</sub> =25℃ | 0.5              |      |      |      |      | 0.1  |       |
|                             | T <sub>a</sub> =100℃ |      |                                   | 10                  |                  |      | 5.0  |      | 2.0  |      |       |
| Thermal Resistance(Typical) | R <sub>θJ-A</sub>    | ℃/W  | Between junction and ambient      |                     | 88 <sup>1)</sup> |      |      |      |      |      |       |
|                             | R <sub>θJ-L</sub>    |      | Between junction and terminal     |                     | 28 <sup>1)</sup> |      |      |      |      |      |       |

#### Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

### ■Ordering Information (Example)

| PREFERRED P/N   | PACKING CODE | UNIT WEIGHT(g)    | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|-----------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| SS12 THRU SS110 | F1           | Approximate 0.063 | 5000                 | 10000                   | 80000                      | 13" reel      |

### ■ Characteristics(Typical)

FIG.1: FORWARD CURRENT DERATING CURVE

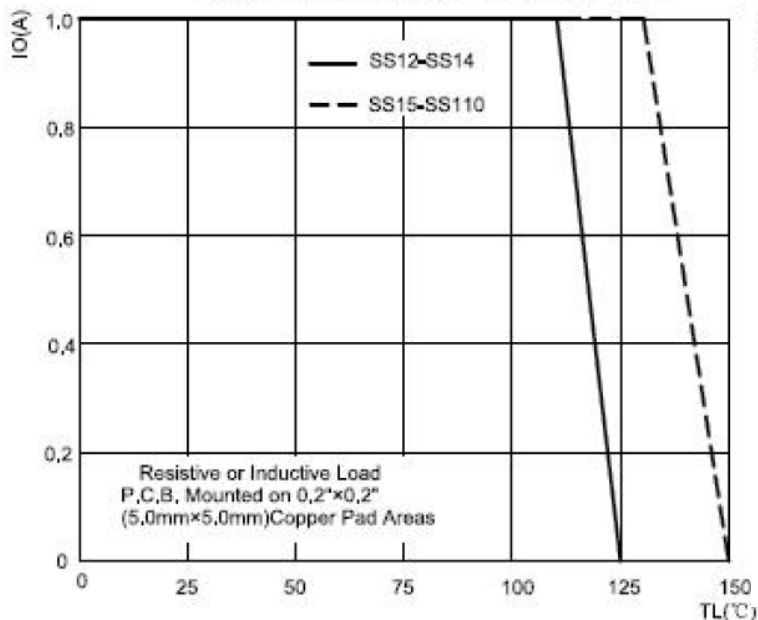


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

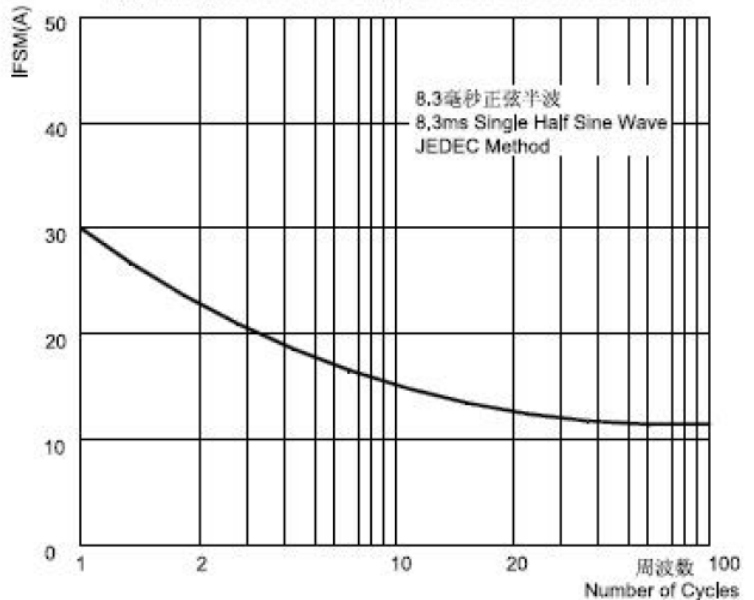


FIG.3: TYPICAL FORWARD CHARACTERISTICS

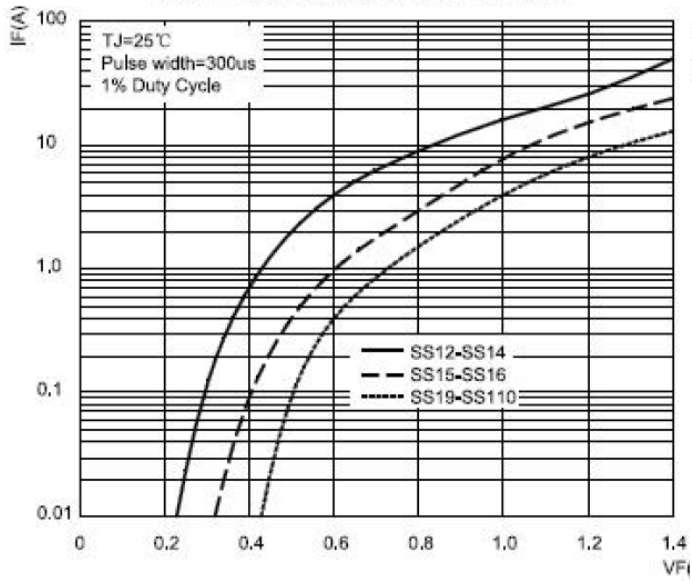
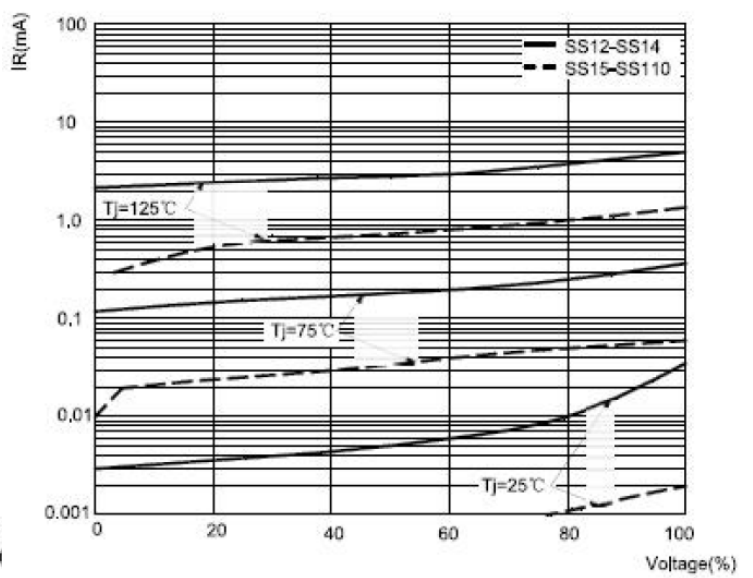
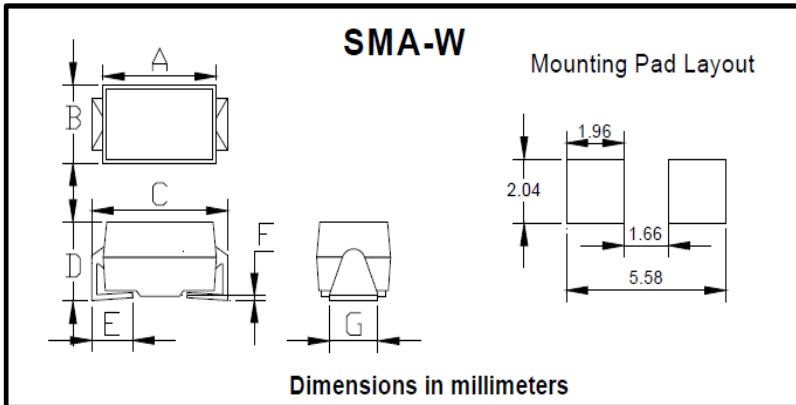


FIG.4: TYPICAL REVERSE CHARACTERISTICS



## ■ Outline Dimensions



| SMA-W |      |      |
|-------|------|------|
| Dim   | Min  | Max  |
| A     | 4.00 | 4.60 |
| B     | 2.40 | 2.65 |
| C     | 4.80 | 5.31 |
| D     | 2.05 | 2.45 |
| E     | 0.80 | 1.50 |
| F     | 0.10 | 0.20 |
| G     | 1.15 | 1.80 |



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