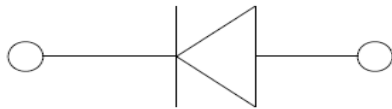


■ **FEATURES**

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



■ **MAXIMUM RATINGS** ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| Item | Symbol | Unit | Test Conditions | SS12 | SS13 | SS14 | SS15 | SS16 | SS19 | SS110 | | |
|--------------------------------------|-------------|------------------|---|------------|------|------|----------|------|------|-------|--|--|
| Repetitive Peak Reverse Voltage | V_{RRM} | V | | 20 | 30 | 40 | 50 | 60 | 90 | 100 | | |
| Average Forward Current | $I_{F(AV)}$ | A | 60HZ Half-sine wave, Resistance load, $T_a(\text{Fig.1})$ | 1.0 | | | | | | | | |
| Surge(Non-repetitive)Forward Current | I_{FSM} | A | 60Hz Half-sine wave ,1 cycle , $T_a=25^\circ\text{C}$ | 30 | | | | | | | | |
| Junction Temperature | T_J | $^\circ\text{C}$ | | -55~+125 | | | -55~+150 | | | | | |
| Storage Temperature | T_{STG} | $^\circ\text{C}$ | | -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

■ **ELECTRICAL CHARACTERISTICS** ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| Item | Symbol | Unit | Test Conditions | SS12 | SS13 | SS14 | SS15 | SS16 | SS19 | SS110 |
|-----------------------------|------------------|--------------------|-------------------------------|-------------------------|------|------|------|------|------|-------|
| Peak Forward Voltage | V_F | V | $I_F=1.0A$ | 0.55 | | | 0.70 | | 0.85 | |
| Peak Reverse Current | I_{RRM1} | mA | $V_{RM}=V_{RRM}$ | $T_a=25^\circ\text{C}$ | | 0.5 | | | 0.1 | |
| | I_{RRM2} | | | $T_a=100^\circ\text{C}$ | | 10 | | 5.0 | | 2.0 |
| Thermal Resistance(Typical) | $R_{\theta J-A}$ | $^\circ\text{C/W}$ | Between junction and ambient | 88 ¹⁾ | | | | | | |
| | $R_{\theta J-L}$ | | Between junction and terminal | 28 ¹⁾ | | | | | | |

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

■ **PACKAGING INFORMATION**

| PREFERED 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

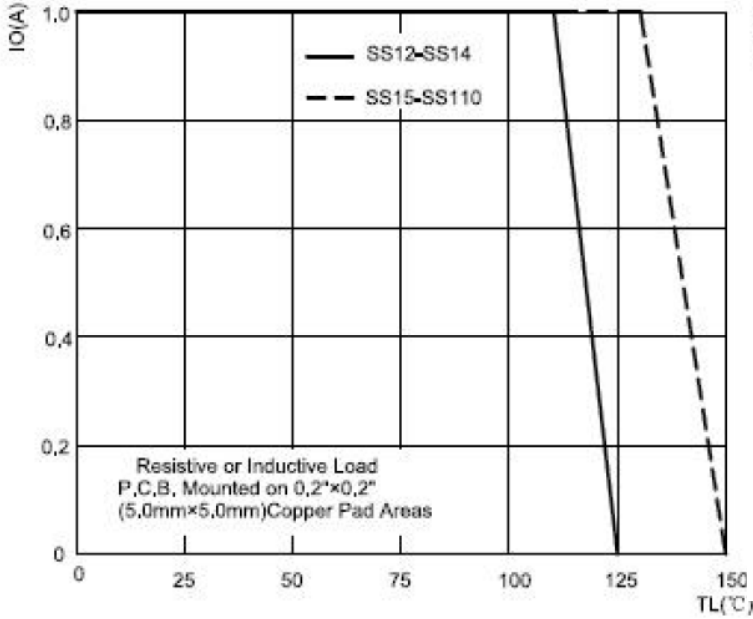


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

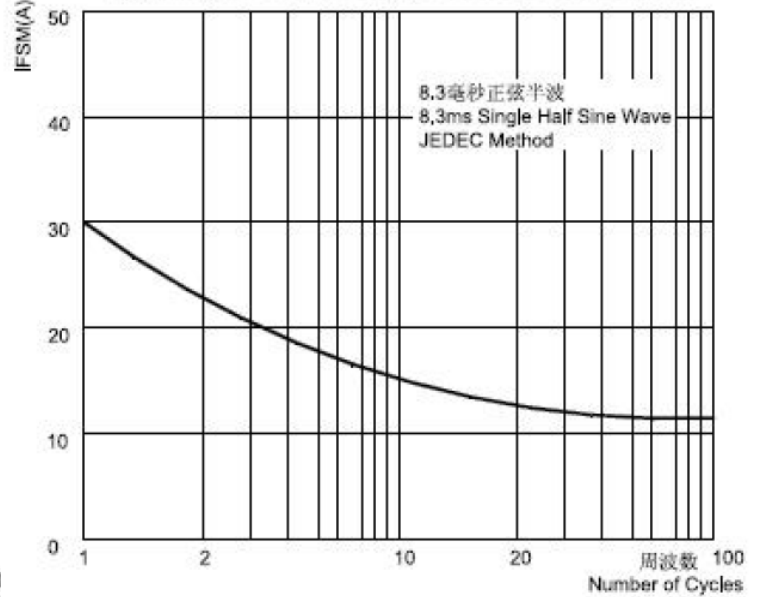


FIG.3: TYPICAL FORWARD CHARACTERISTICS

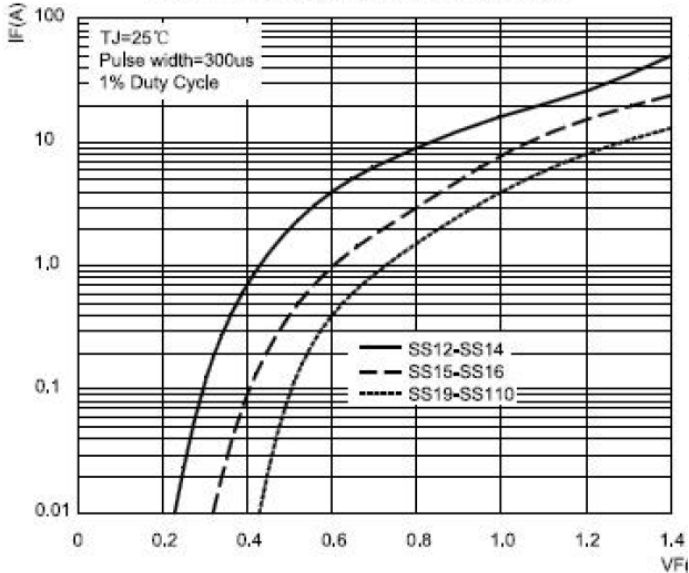
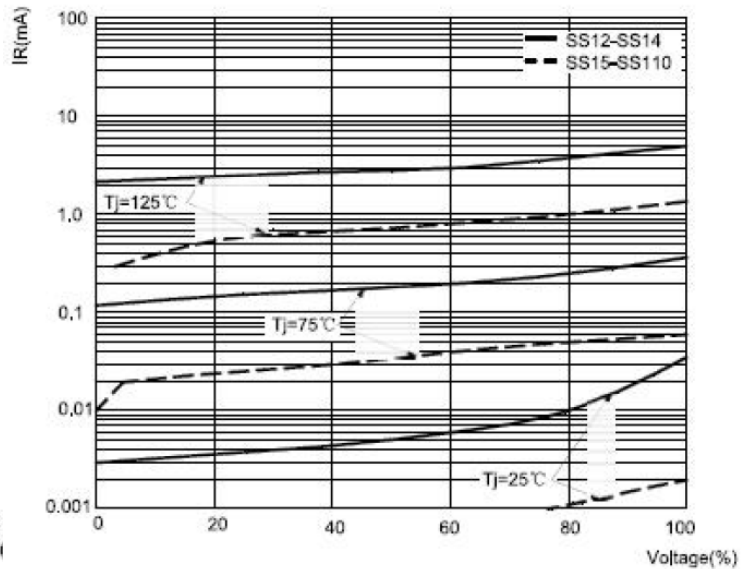
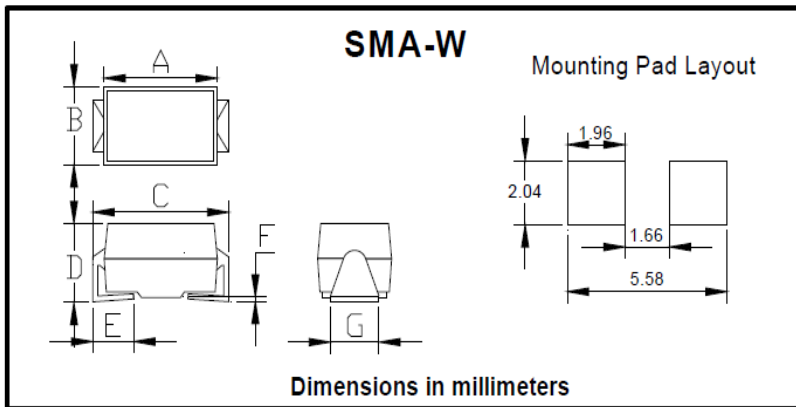


FIG.4: TYPICAL REVERSE CHARACTERISTICS



■ **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 |