



FEATURES

- Average Forward Current: $I_{F(AV)}=5A$
- Polarity: Color band denotes cathode



SMA

Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|------------|------|---------|----------|
| SS52~SS520 | SMA | SS5* | 2000 |

*:From2-20



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

| Item | Symbol | Unit | Test Conditions | SS5 | | | | | | | | | | | | | | |
|--------------------------------------|-------------|------|---|------------|----|----|----|----|----------|-----|-----|-----|--|--|--|--|--|--|
| | | | | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 15 | 20 | | | | | | |
| Repetitive Peak Reverse Voltage | V_{RRM} | V | | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | | | | | | |
| Maximum RMS Voltage | V_{RMS} | V | | 14 | 21 | 28 | 35 | 42 | 56 | 70 | 105 | 140 | | | | | | |
| Average Forward Current | $I_{F(AV)}$ | A | 60Hz Half-sine wave, Resistance load, FIG.1 | 5.0 | | | | | | | | | | | | | | |
| Surge(Non-repetitive)Forward Current | I_{FSM} | A | 60Hz Half-sine wave, 1 cycle, Ta=25°C | 150 | | | | | | | | | | | | | | |
| Junction Temperature | T_J | °C | | -55~+125 | | | | | -55~+150 | | | | | | | | | |
| Storage Temperature | T_{STG} | °C | | -55 ~ +150 | | | | | | | | | | | | | | |

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

| Item | Symbol | Unit | Test Condition | SS5 | | | | | | | | | | | | | | |
|-----------------------------|------------------|------|-------------------------------|-------------------|---|------|---|------|---|------|----|----|--|--|--|--|--|--|
| | | | | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 15 | 20 | | | | | | |
| Peak Forward Voltage | V_F | V | $I_F=5.0A$ | 0.55 | | 0.70 | | 0.85 | | 0.95 | | | | | | | | |
| Peak Reverse Current | I_{RRM1} | mA | $V_{RM}=V_{RRM}$ | $T_a=25^\circ C$ | | 0.5 | | | | 0.2 | | | | | | | | |
| | I_{RRM2} | | | $T_a=100^\circ C$ | | 20 | | | | 10 | | | | | | | | |
| Thermal Resistance(Typical) | $R_{\theta J-A}$ | °C/W | Between junction and ambient | 55 | | | | | | | | | | | | | | |
| | $R_{\theta J-L}$ | | Between junction and terminal | 17 | | | | | | | | | | | | | | |

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



Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

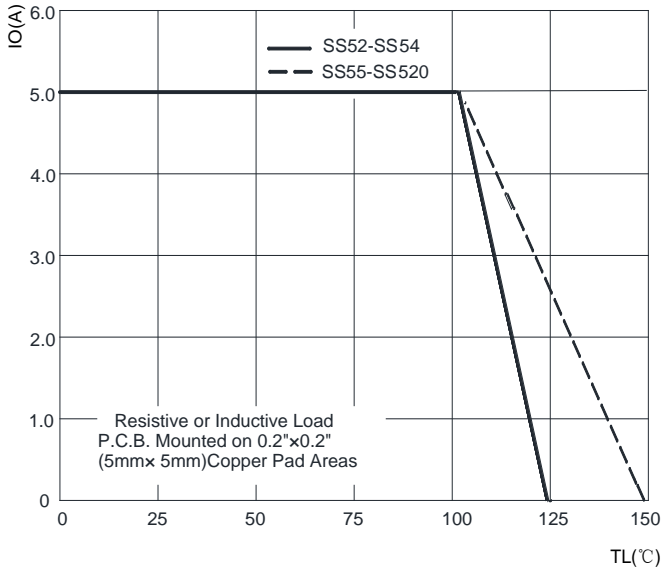


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

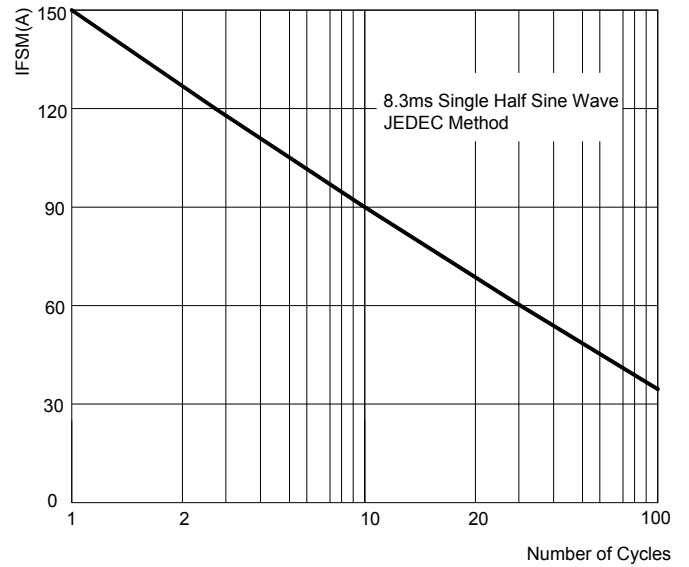


FIG.3: TYPICAL FORWARD CHARACTERISTICS

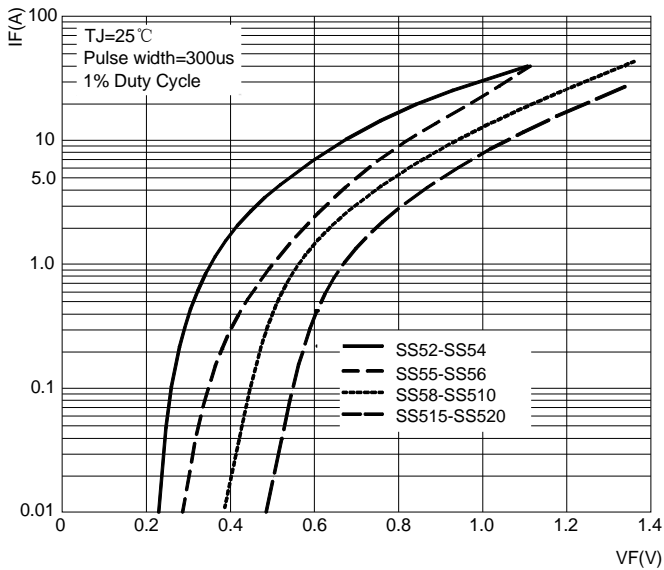
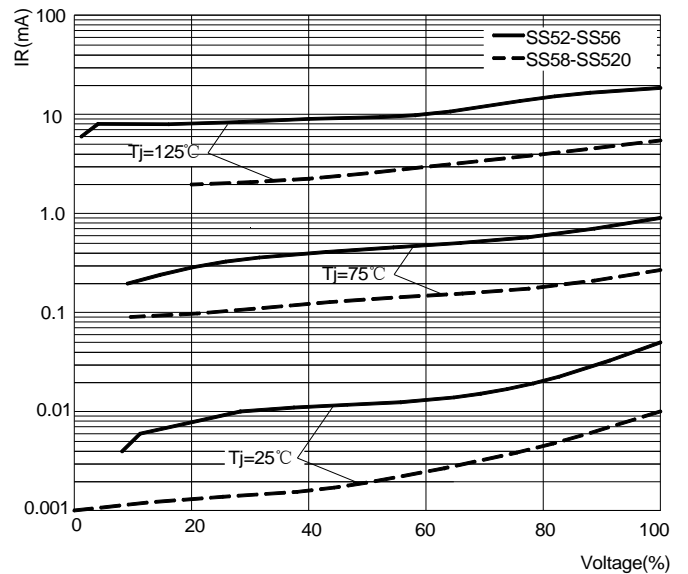
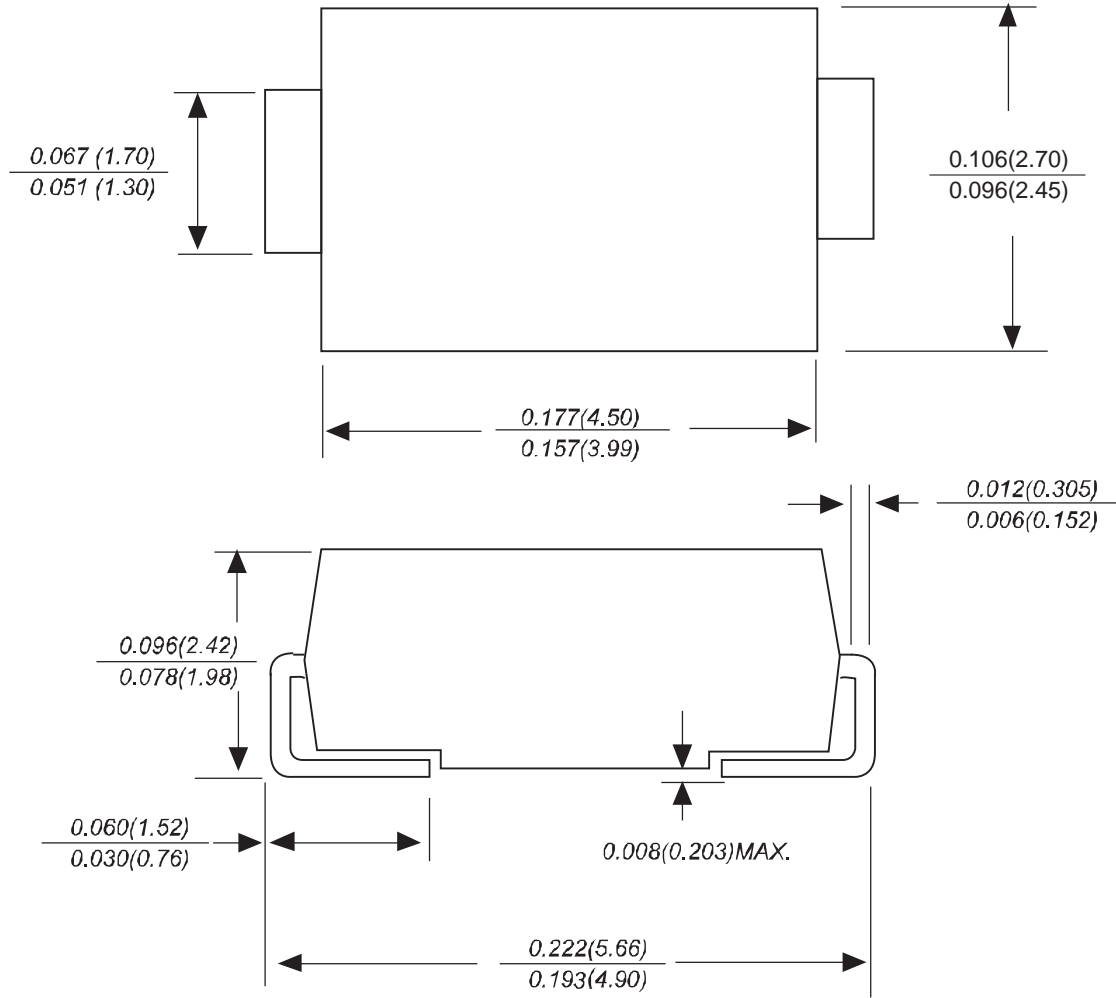


FIG.4: TYPICAL REVERSE CHARACTERISTICS





SMA Package Outline Dimensions



Dimensions in inches and (millimeters)



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