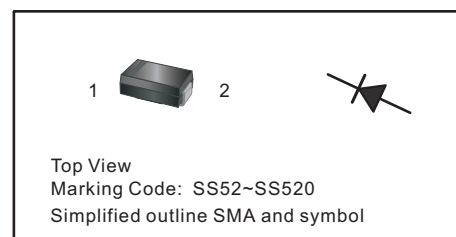


Surface Mount Schottky Barrier Rectifier
Reverse Voltage - 20 to 200 V
Forward Current - 5.0A

PINNING

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


Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 60mg / 0.0021oz

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

| Parameter | Symbols | SS52 | SS54 | SS56 | SS58 | SS510 | SS512 | SS515 | SS520 | Units |
|---|-----------------|------------|------|------|------|-------|-------|-------|-------|-------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 20 | 40 | 60 | 80 | 100 | 120 | 150 | 200 | V |
| Maximum RMS voltage | V_{RMS} | 14 | 28 | 42 | 56 | 70 | 84 | 105 | 140 | V |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 40 | 60 | 80 | 100 | 120 | 150 | 200 | V |
| Maximum Average Forward Rectified Current | $I_{F(AV)}$ | 5.0 | | | | | | | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I_{FSM} | 150 | | | | | | | | A |
| Max Instantaneous Forward Voltage at 5 A | V_F | 0.55 | | 0.70 | | 0.85 | | | | V |
| Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$ | I_R | 1.0 50 | | | | | | | | mA |
| Typical Junction Capacitance ⁽¹⁾ | C_j | 500 | | 300 | | | | | | pF |
| Typical Thermal Resistance ⁽²⁾ | $R_{\theta JA}$ | 60 | | | | | | | | °C/W |
| Operating Junction Temperature Range | T_j | -55 ~ +150 | | | | | | | | °C |
| Storage Temperature Range | T_{stg} | -55 ~ +150 | | | | | | | | °C |

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

Fig.1 Forward Current Derating Curve

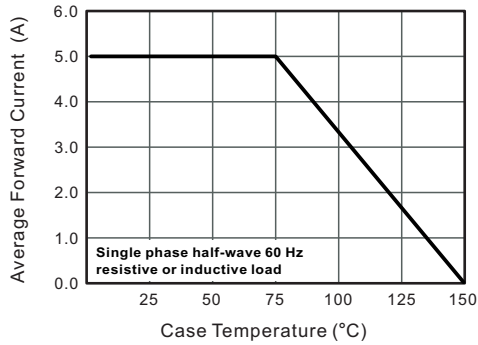


Fig.2 Typical Reverse Characteristics

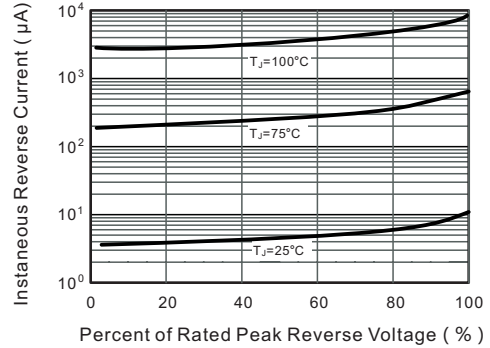


Fig.3 Typical Forward Characteristic

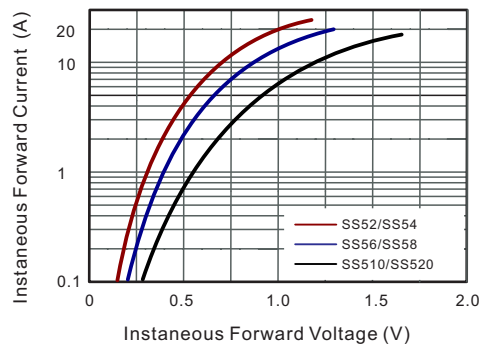


Fig.4 Typical Junction Capacitance

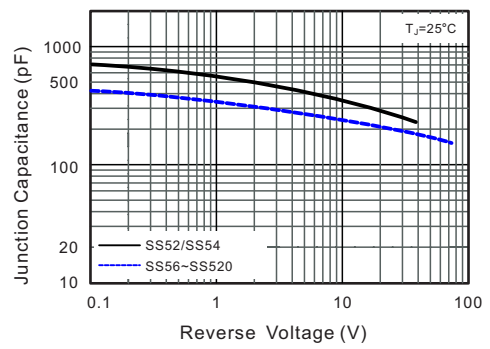


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

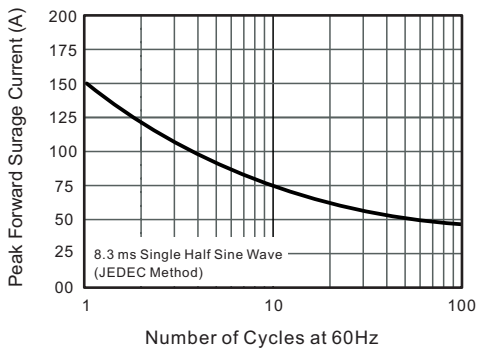
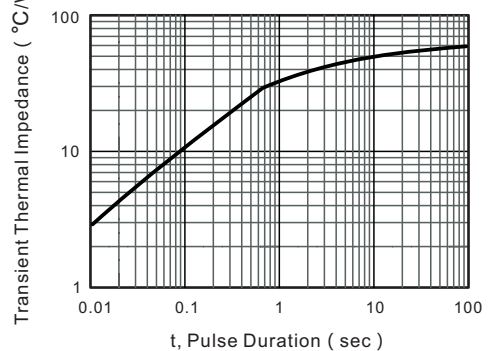


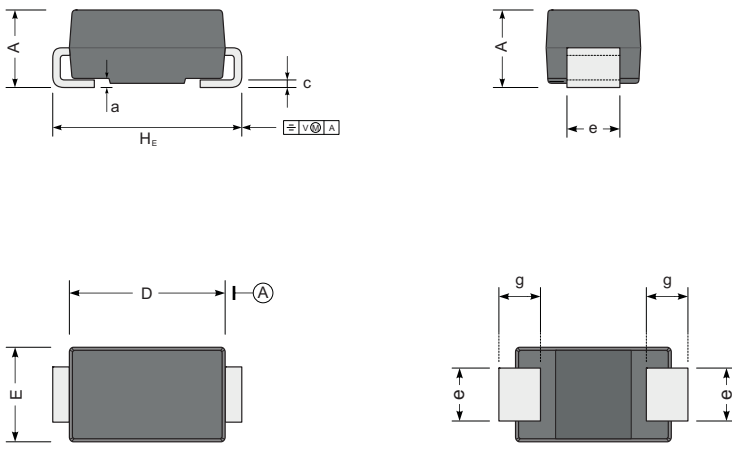
Fig.6- Typical Transient Thermal Impedance



PACKAGE OUTLINE

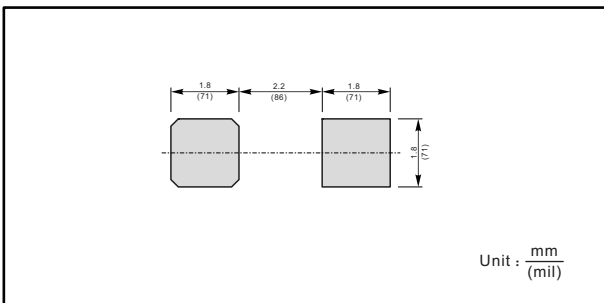
Plastic surface mounted package; 2 leads

SMA



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

The recommended mounting pad size



Marking

| Type number | Marking code |
|-------------|--------------|
| SS52 | SS52 |
| SS54 | SS54 |
| SS56 | SS56 |
| SS58 | SS58 |
| SS510 | SS510 |
| SS512 | SS512 |
| SS515 | SS515 |
| SS520 | SS520 |

ORDERING INFORMATION

| Order Code | Package | Baseqty | Deliverymode |
|------------|---------|---------|---------------|
| UMW SS52 | SMA | 2000 | Tape and reel |
| UMW SS54 | SMA | 2000 | Tape and reel |
| UMW SS56 | SMA | 2000 | Tape and reel |
| UMW SS58 | SMA | 2000 | Tape and reel |
| UMW SS510 | SMA | 2000 | Tape and reel |
| UMW SS512 | SMA | 2000 | Tape and reel |
| UMW SS515 | SMA | 2000 | Tape and reel |
| UMW SS520 | SMA | 2000 | Tape and reel |

单击下面可查看定价，库存，交付和生命周期等信息

[>>UMW\(友台半导体\)](#)