

## Trench MOS Barrier Schottky Rectifier - 3Amp 60Volt

### Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed
- High reliability
- High surge current capability
- Epitaxial construction
- Lead free device
- Halogen-Free

### Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solder plated, solderable per MIL-STD-750,method 2026
- Polarity : Color band denotes cathode end
- Weight : 0.002 ounce 0.064 grams

### Maximum ratings and Electrical characteristics

| Parameters   |            | SSR3V6      | UNIT |
|--|------------|-------------|------|
| Maximum Recurrent Peak Reverse Voltage                       |            | 60          | V    |
| Maximum RMS Voltage  |            | 42          | V    |
| Maximum DC Blocking Voltage                                  |            | 60          | V    |
| Maximum Average Forward Rectified Current                    |            | 3           | A    |
| Peak Forward Surge Current                                   |            | 80          | A    |
| Maximum Instantaneous Forward Voltage at 3A                  | Tc = 25°C  | 0.55        | V    |
|  | Tc = 125°C | 0.50        |      |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | Tc = 25°C  | 0.5         | mA   |
|  | Tc = 125°C | 50          |      |
| Typical Junction Capacitance                                 |            | 500         | pF   |
| Typical Thermal Resistance R <sub>θJL</sub> (Note 1)         |            | 25          | °C/W |
| Operating and Storage Temperature Range                      |            | -50 to +150 | °C   |

Note : 1. Mounted on P.C.B with copper pad size 8mm x 8mm

June 2015 / Rev.7.0

# SSR3V6

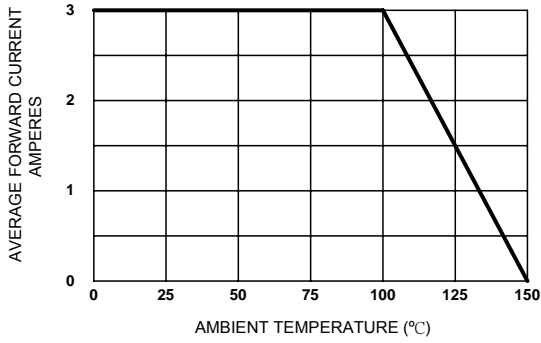


Figure 1. Forward Current Derating Curve

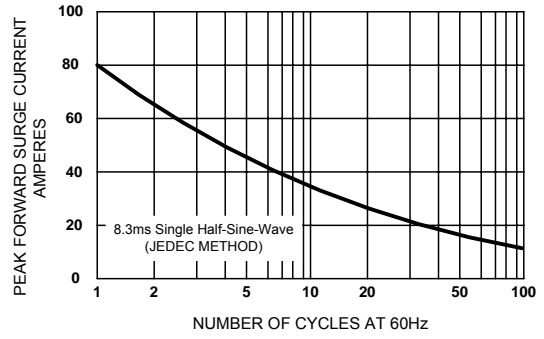


Figure 2. Maximum Non-repetitive Surge Current

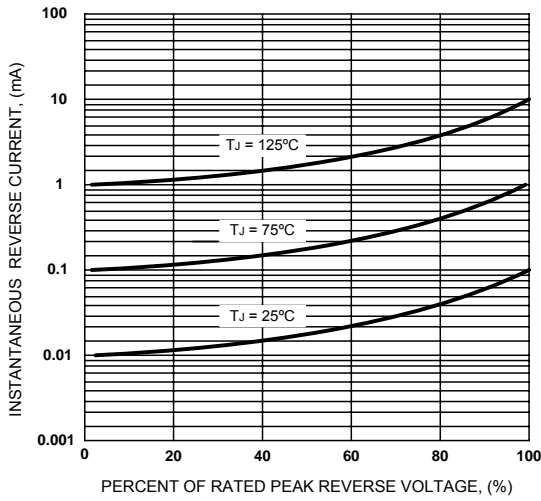


Figure 3. Typical Reverse Characteristics

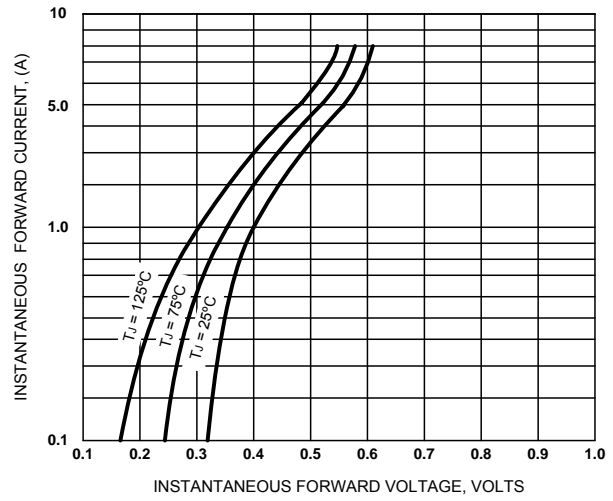


Figure 4. Typical Forward Characteristics

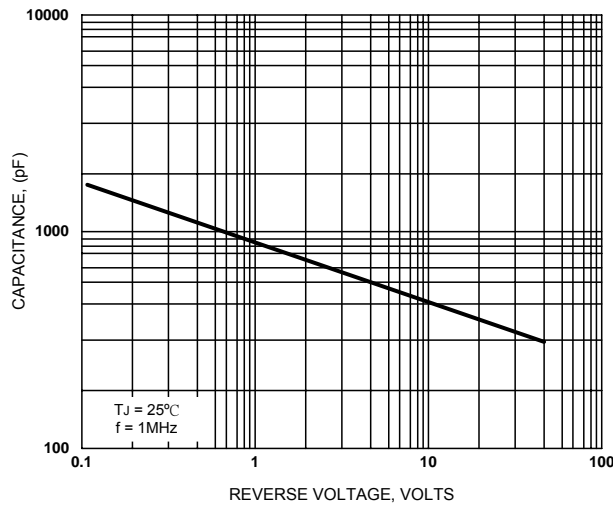


Figure 5. Typical Junction Capacitance



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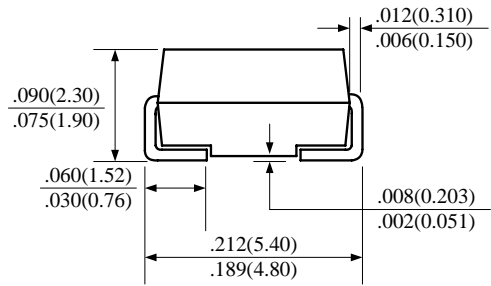
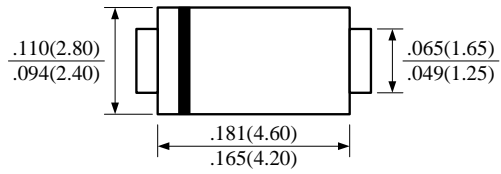
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## SMA



UNIT : inch(mm)

