

**Power Schottky Rectifier - 1Amp 40~200Volt**

**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   |            | SSR14       | SSR16 | SSR110      | SSR115 | SSR120 | UNIT |
|--|------------|-------------|-------|-------------|--------|--------|------|
| Maximum Recurrent Peak Reverse Voltage                       |            | 40          | 60    | 100         | 150    | 200    | V    |
| Maximum RMS Voltage  |            | 28          | 42    | 70          | 105    | 140    | V    |
| Maximum DC Blocking Voltage                                  |            | 40          | 60    | 100         | 150    | 200    | V    |
| Maximum Average Forward Rectified Current                    |            | 1           |       |             |        |        | A    |
| Peak Forward Surge Current                                   |            | 30          |       |             |        |        | A    |
| Maximum Instantaneous Forward Voltage at 1A                  | Tc = 25°C  | 0.50        | 0.65  | 0.8         | 0.88   | 0.90   | V    |
|  | Tc = 125°C | 0.40        | 0.50  | 0.66        | 0.69   | 0.72   |      |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | Tc = 25°C  | 0.5         |       | 0.05        |        |        | mA   |
|  | Tc = 100°C | 20          |       | 10          |        |        |      |
| Typical Junction Capacitance                                 |            | 100         |       |             |        |        | pF   |
| Typical Thermal Resistance R $\theta$ JL (Note 1)            |            | 25          |       |             |        |        | °C/W |
| Operating and Storage Temperature Range                      |            | -50 to +125 |       | -50 to +150 |        |        | °C   |

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

July 2013 / Rev.7.0

# SSR14 ~ SSR120

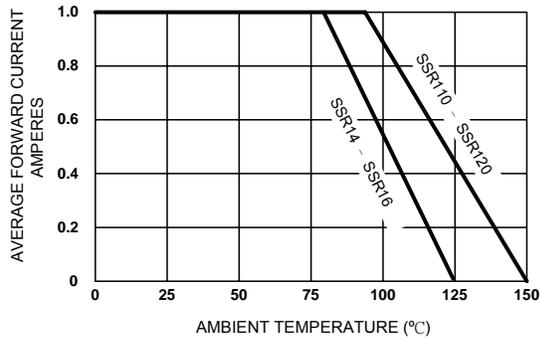


Figure 1. Forward Current Derating Curve

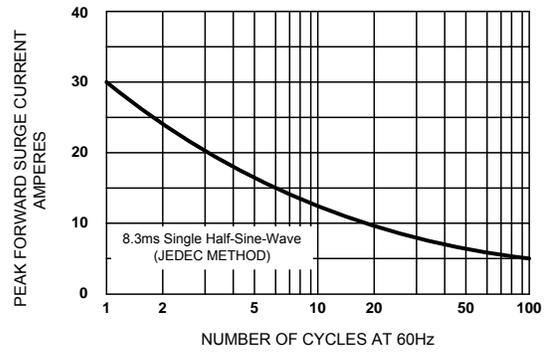


Figure 2. Maximum Non-repetitive Surge Current

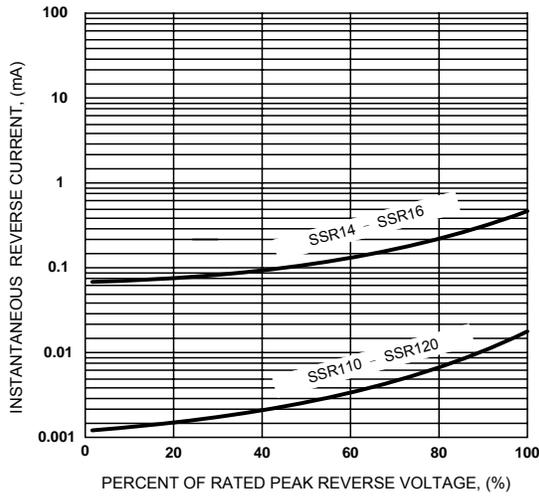


Figure 3. Typical Reverse Characteristics

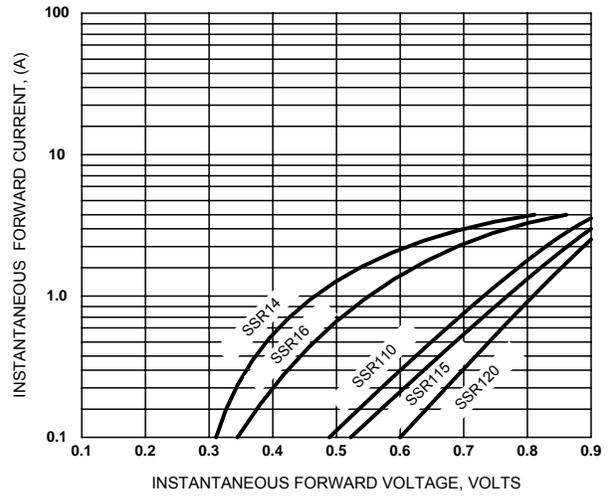


Figure 4. Typical Forward Characteristics

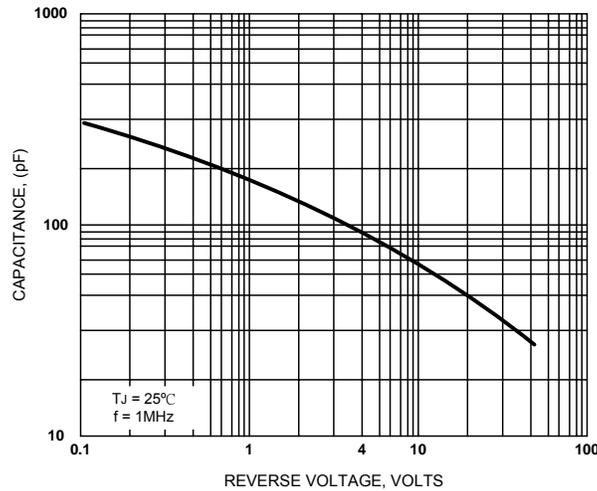


Figure 5. Typical Junction Capacitance



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# SSR14~SSR120

## SMA

