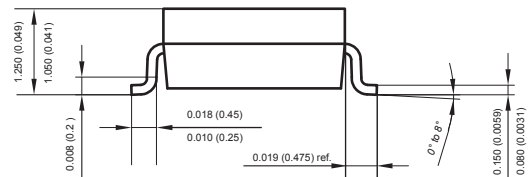
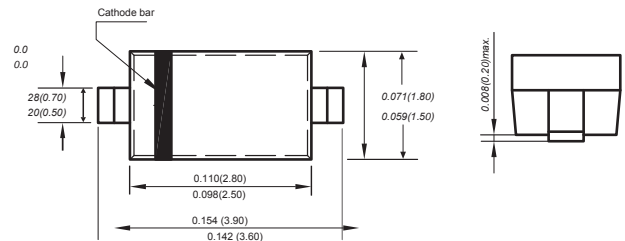


Features

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

Marking

| NO. | 1N5817W | 1N5818W | 1N5819W |
|---------|---------|---------|---------|
| Marking | SJ | SK | SL |



Dimensions in inches and (millimeters)

Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

| Parameter | Symbols | 1N5817WS | 1N5818WS | 1N5819WS | Units |
|---|----------------|--------------|---------------|------------|-------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 20 | 30 | 40 | V |
| Maximum RMS voltage | V_{RMS} | 14 | 21 | 28 | V |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 30 | 40 | V |
| Maximum Average Forward Rectified Current | $I_{F(AV)}$ | 1 | | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC) | I_{FSM} | 9 | | | A |
| Maximum Instantaneous Forward Voltage at 1 A at 3 A | V_F | 0.45 0.75 | 0.55 0.875 | 0.6 0.9 | V |
| Maximum Instantaneous Reverse Current at $T_A = 25^\circ\text{C}$ Rated DC Reverse Voltage $T_A = 100^\circ\text{C}$ | I_R | 1 10 | | | mA |
| Typical Junction Capacitance | C_J | 110 | | | pF |
| Storage and Operating Junction Temperature Range | T_J, T_{stg} | -55 ~ +150 | | | °C |

Typical Characteristic Curves

Fig.1 Forward Current Derating Curve

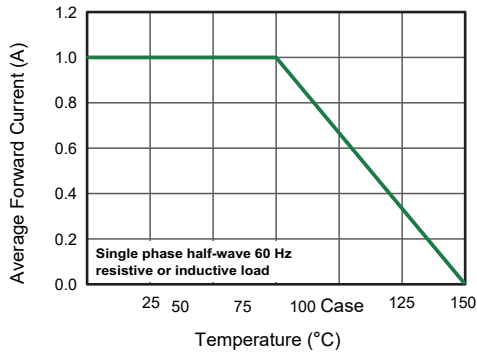


Fig.2 Typical Reverse Characteristics

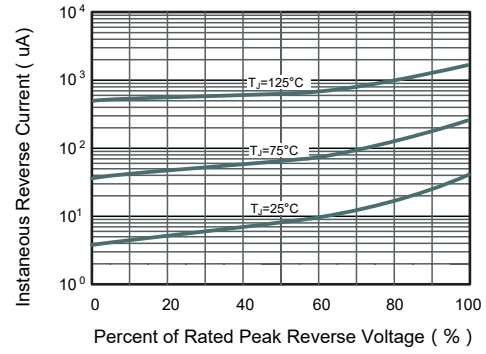


Fig.3 Typical Forward Characteristic

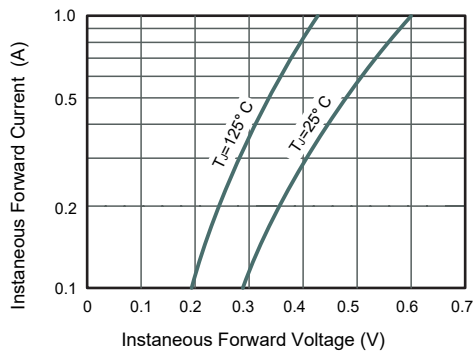
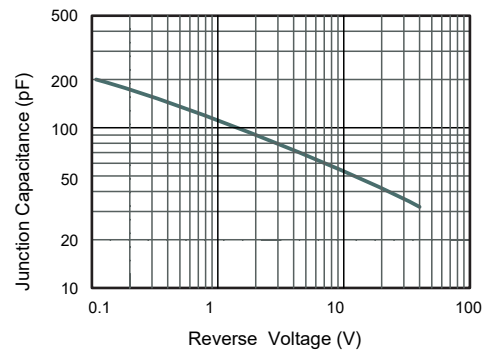
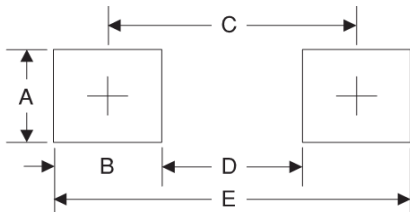


Fig.4 Typical Junction Capacitance



Suggested Pad Layout



| Symbol | Unit (mm) | Unit (inch) |
|--------|-----------|-------------|
| A | 1.2 | 0.047 |
| B | 1.2 | 0.047 |
| C | 3.2 | 0.126 |
| D | 2 | 0.079 |
| E | 4.4 | 0.173 |

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