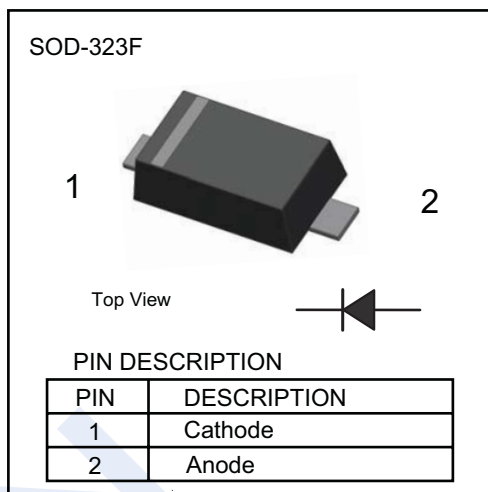


Schottky Diodes

1N5817WS ~ 1N5819WS

■ Features

- Low power loss, high efficiency
- High current capability
- Low forward voltage drop
- High Surge Capability



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | 1N5817WS | 1N5818WS | 1N5819WS | Unit |
|--|------------------|---------------------------|----------|----------|------|
| Peak Repetitive Reverse Voltage | VRRM | 20 | 30 | 40 | V |
| RMS Voltage | VRMS | 14 | 21 | 28 | |
| DC Blocking Voltage | VDC | 20 | 30 | 40 | |
| Forward Voltage @ $I_F=1\text{A}$ | V _F | 0.45 | 0.55 | 0.6 | |
| Forward Voltage @ $I_F=3.1\text{A}$ | | 0.75 | 0.875 | 0.9 | |
| Average Forward Rectified Current @ $T_L=90^\circ\text{C}$ | I _{FAV} | 1 | | | A |
| Non-Repetitive Peak Forward Surge Current @8.3ms | I _{FSM} | 25 | | | |
| Reverse Voltage Leakage Current | I _R | $T_a = 25^\circ\text{C}$ | | | mA |
| | | $T_a = 100^\circ\text{C}$ | | | |
| Typical Junction Capacitance | C _J | 110 | | | pF |
| Junction Temperature | T _J | 125 | | | °C |
| Storage Temperature range | T _{stg} | -55 to 125 | | | |

■ Marking

| NO. | 1N5817WS | 1N5818WS | 1N5819WS |
|---------|----------|----------|----------|
| Marking | SJ | SK | SL |

Schottky Diodes

1N5817WS ~ 1N5819WS

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

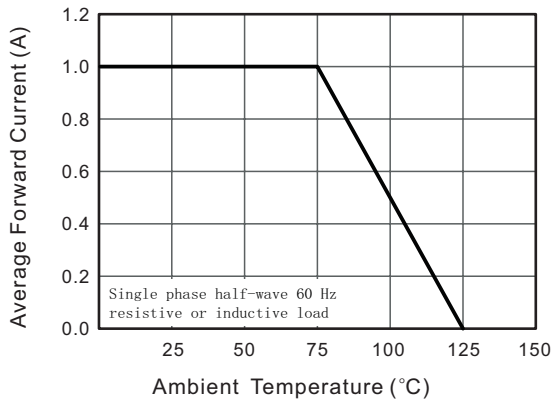


Fig.2 Typical Reverse Characteristics

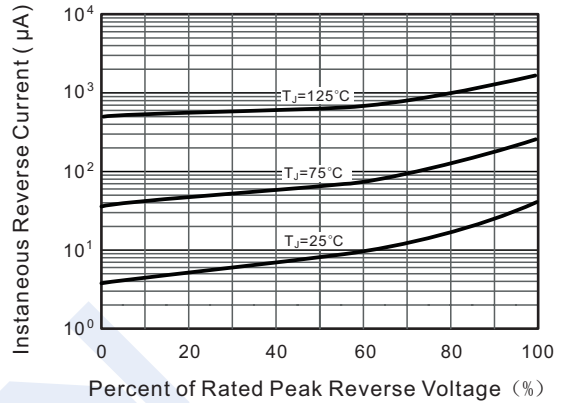


Fig.3 Typical Forward Characteristic

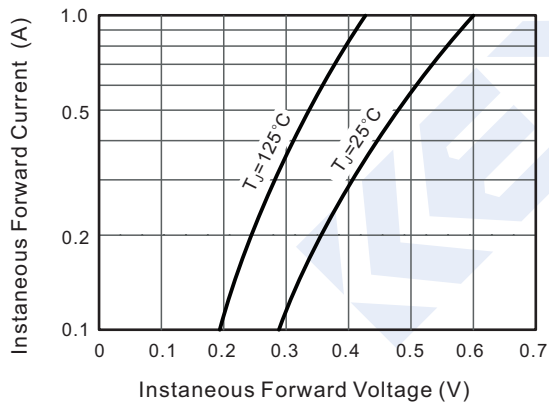


Fig.4 Typical Junction Capacitance

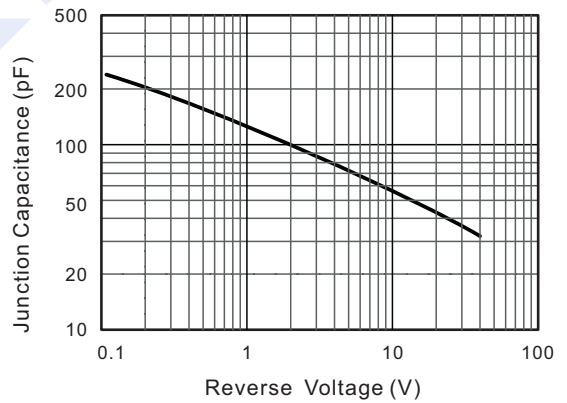


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

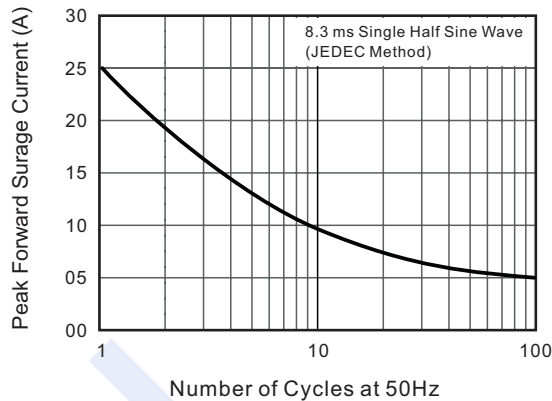
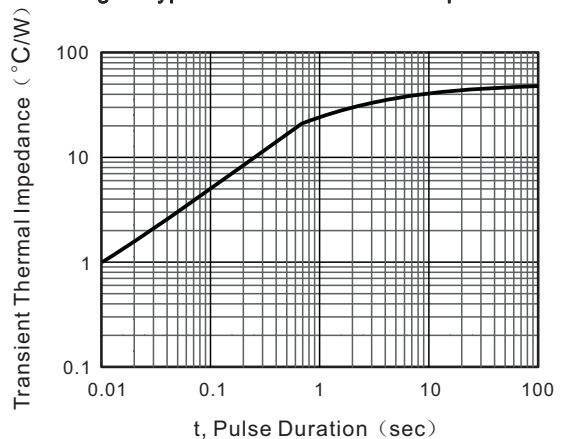


Fig.6- Typical Transient Thermal Impedance



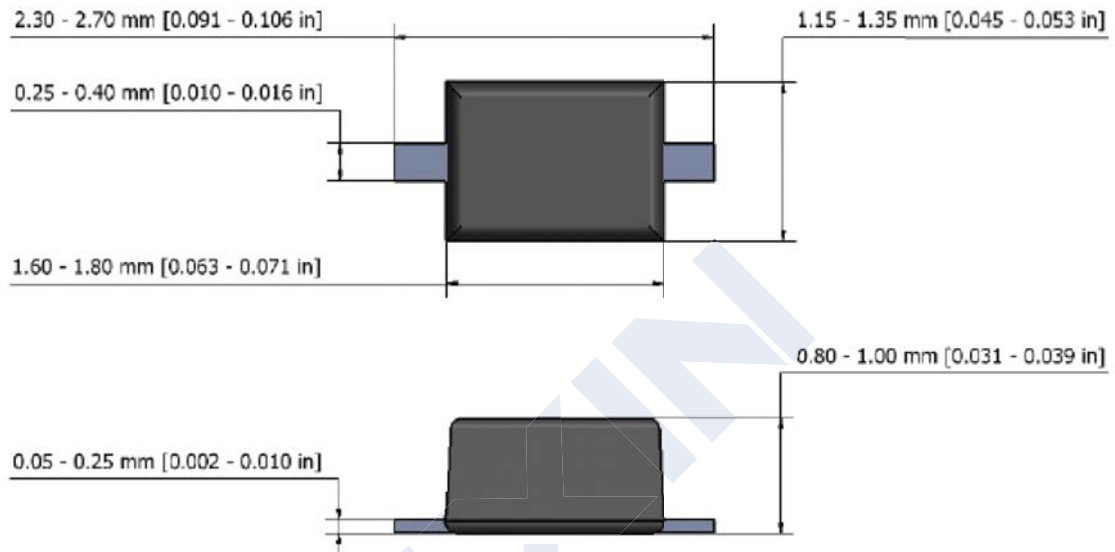
Schottky Diodes

1N5817WS ~ 1N5819WS

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SOD-323F



Note:

- 1.The above package outline is similar to JEITA SC-90.
- 2.Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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