



Schottky Barrier Diode

Reverse Voltage - 100 Volts Forward Current - 3.0 Amperes

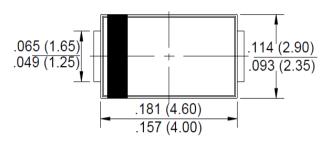
FEATURES

- ●Low profile package
- •Ideal for automated placement.
- ■Low forward voltage drop.
- High surge capability.
- Guard ring for overvoltage protection.
- ■Comply with AEC-Q101

MECHANICAL DATA

- ●Case: SMA, molded plastic.
- ●Terminals: Lead free plating (Tin finish) Solderable per MIL-STD-202, Method 208.
- ●Epoxy: UL flammability classification rate 94V-0.
- Polarity: Cathode band.
- ●Weight: 0.062 grams(approx.).

SMA





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

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|--|--------|-------------|------|
| CHARACTERISTICS | SYMBOL | SS310A | UNIT |
| Marking | | 3100 | |
| Repetitive peak reverse voltage | VRRM | 100 | V |
| RMS voltage | VRMS | 70 | V |
| DC blocking voltage | VDC | 100 | V |
| Average forward rectified current | lF | 3.0 | А |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 80 | А |
| Forward voltage IF = 3A | VF | 0.85 | V |
| Reverse current VR =VRRM, TA=25°C TA=100°C | lr | 0.2 5.0 | mA |
| Junction capacitance (Note 1) | CJ | 100 | pF |
| Thermal resistance Junction to case | Rejc | 25 | °C/W |
| Operating temperature range | TJ | -55 to +150 | °C |
| Storage temperature range | Tstg | -55 to +150 | °C |

Note 1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

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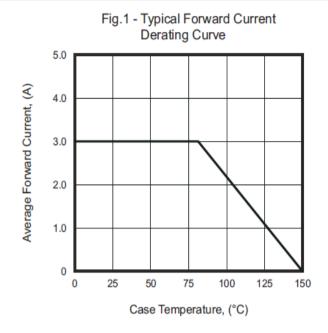


Fig.2 - Typical Forward Characteristics

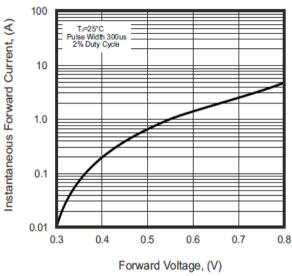


Fig.3 - Maximum Non-Repetitive Forward Surge Current

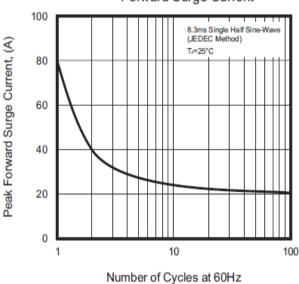


Fig.4 - Typical Reverse Characteristics

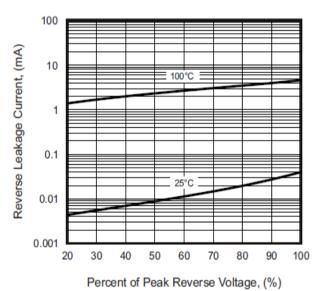
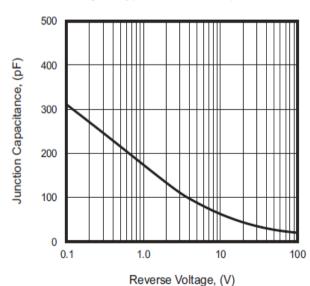


Fig.5 - Typical Junction Capacitance



The curve above is for reference only. 曲线图仅供参考。

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