

Schottky Barrier Diode

Reverse Voltage - 100 Volts
Forward Current - 3.0 Amperes

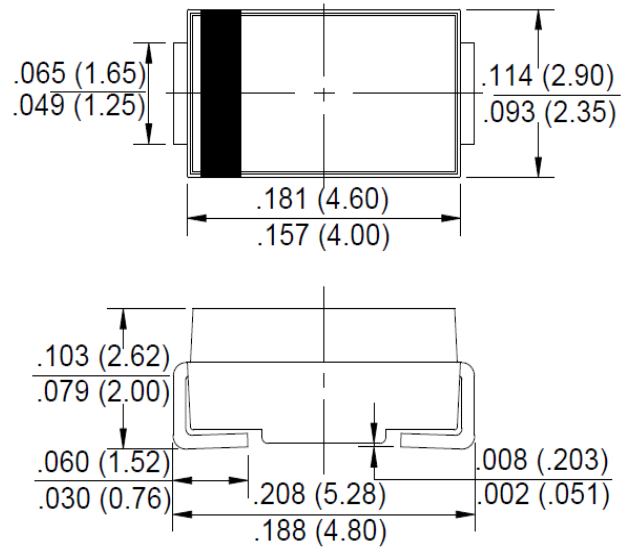
FEATURES

- 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%.

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	IF	3.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80	A
Forward voltage IF = 3A	VF	0.85	V
Reverse current VR =VRRM, TA=25°C	IR	0.2	mA
TA=100°C		5.0	
Junction capacitance (Note 1)	CJ	100	pF
Thermal resistance Junction to case	RθJC	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.

Fig.1 - Typical Forward Current Derating Curve

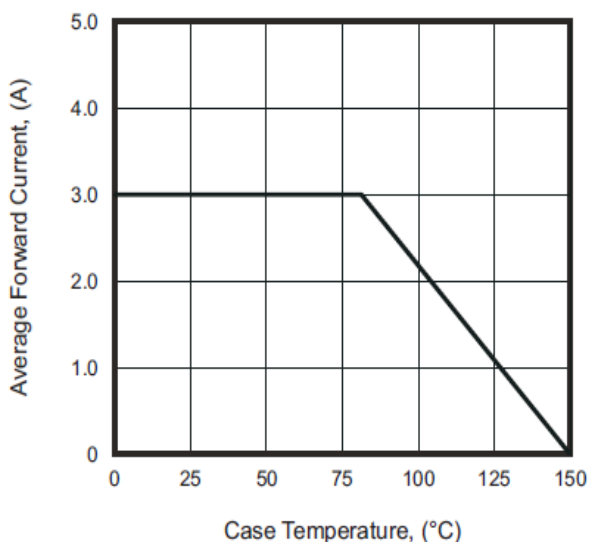


Fig.2 - Typical Forward Characteristics

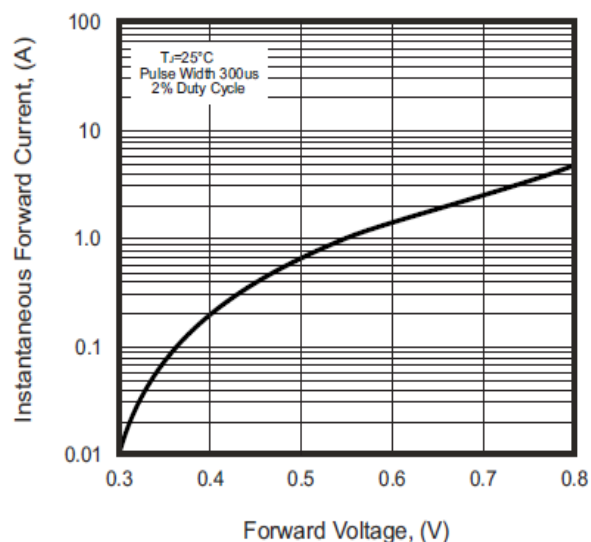


Fig.3 - Maximum Non-Repetitive Forward Surge Current

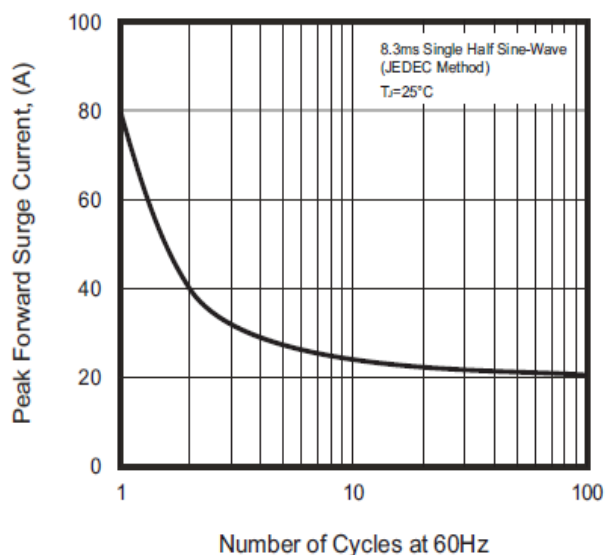


Fig.4 - Typical Reverse Characteristics

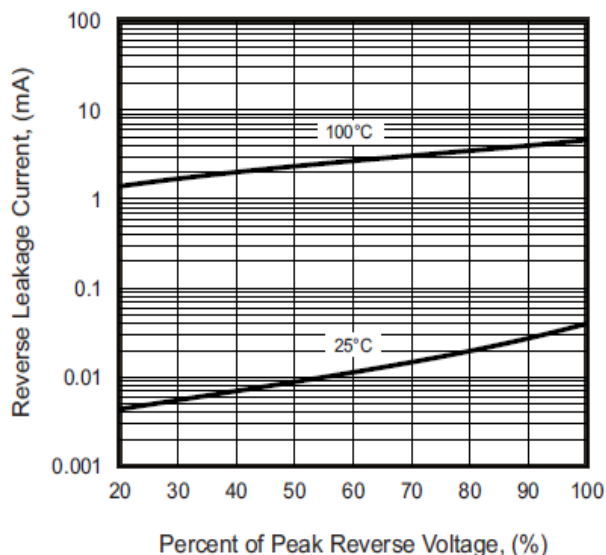
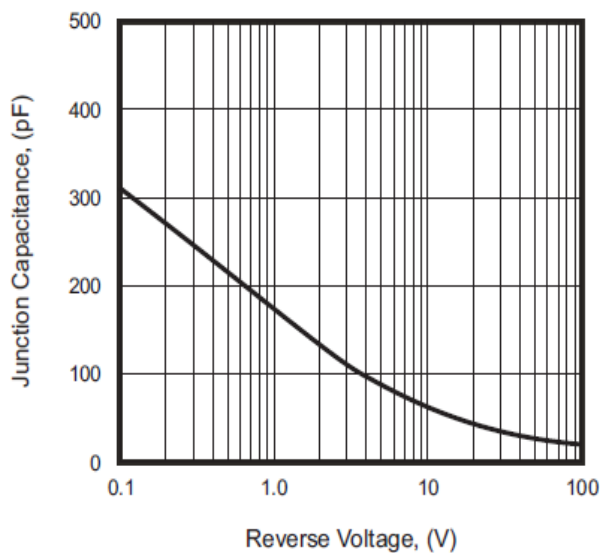


Fig.5 - Typical Junction Capacitance



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