

## Schottky Barrier Diode

Reverse Voltage - 40 Volts  
Forward Current - 3.0 Amperes

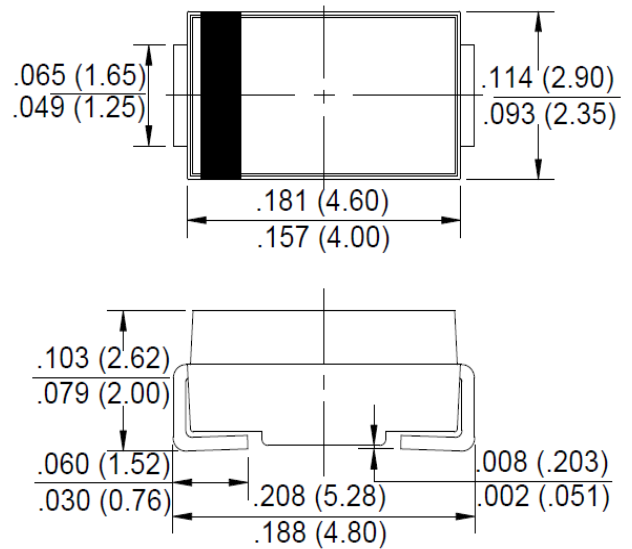
### FEATURES

- 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	SS34A	UNIT
Marking		340	
Repetitive peak reverse voltage	V <sub>RRM</sub>	40	V
RMS voltage	V <sub>RMS</sub>	28	V
DC blocking voltage	V <sub>DC</sub>	40	V
Average forward rectified current	I <sub>F</sub>	3.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	80	A
Forward voltage I <sub>F</sub> = 3A	V <sub>F</sub>	0.55	V
Reverse current V <sub>R</sub> = V <sub>RRM</sub> , T <sub>A</sub> = 25°C	I <sub>R</sub>	0.5	mA
Junction capacitance (Note 1)	C <sub>J</sub>	150	pF
Thermal resistance Junction to ambient	R <sub>θJA</sub>	50	°C/W
Thermal resistance Junction to case	R <sub>θJC</sub>	30	°C/W
Operating temperature range	T <sub>J</sub>	-55 to +125	°C
Storage temperature range	T <sub>STG</sub>	-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

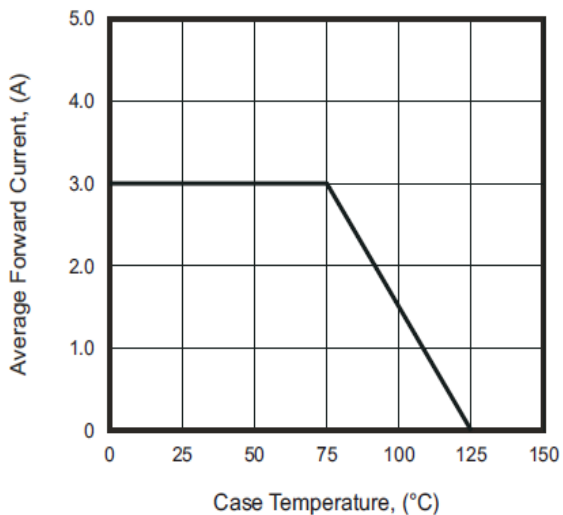


Fig.2 - Maximum Non-Repetitive Forward Surge Current

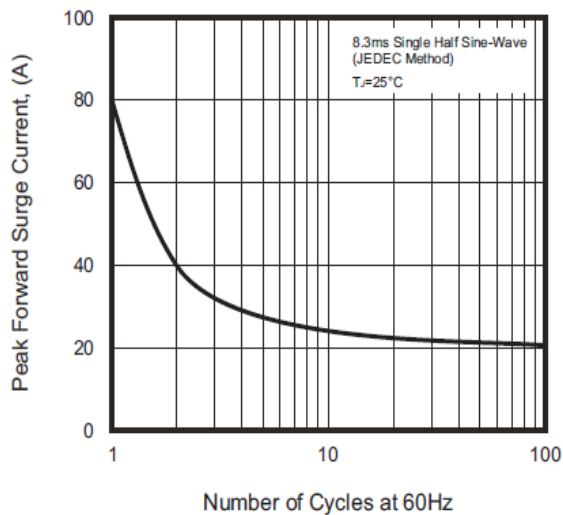


Fig.3 - Typical Forward Characteristics

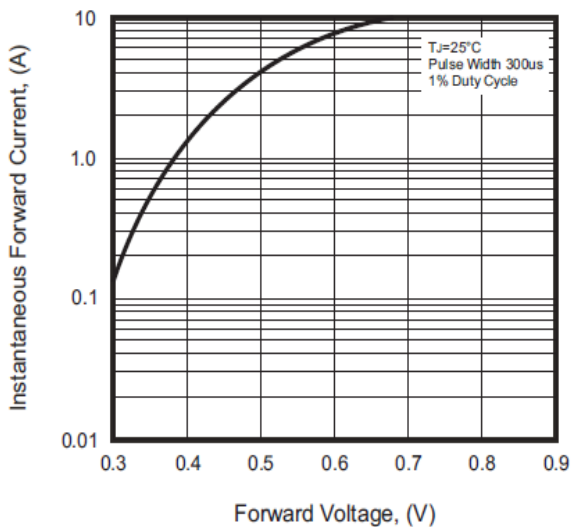


Fig.4 - Typical Reverse Characteristics

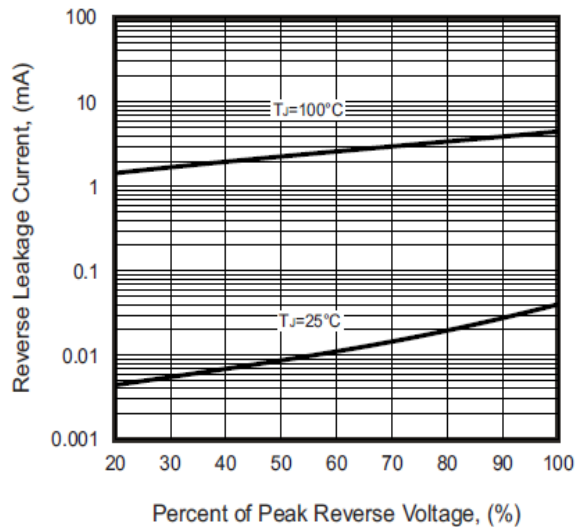
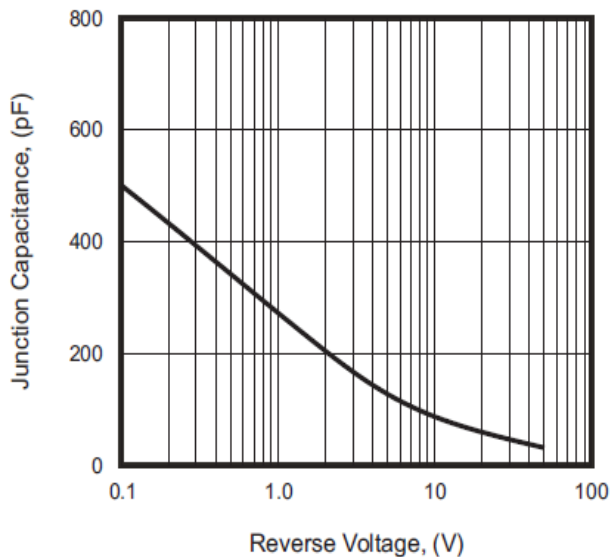


Fig.5 - Typical Junction Capacitance





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