

Schottky Barrier Diode

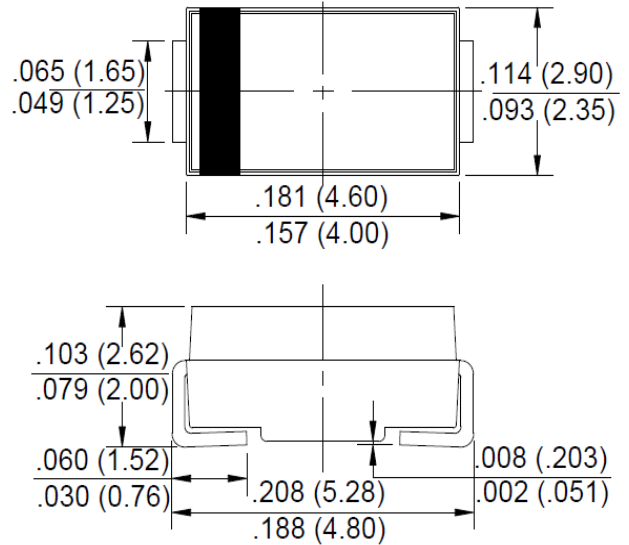
 Reverse Voltage - 60 Volts
 Forward Current - 3.0 Amperes

FEATURES

- High current capability
- High surge capability
- Low reverse current.
- 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	SS36A	UNIT
Marking		360	
Repetitive peak reverse voltage	V _{RRM}	60	V
RMS voltage	V _{RMS}	42	V
DC blocking voltage	V _{DC}	60	V
Average forward rectified current	I _F	3.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80	A
Forward voltage I _F = 3A	V _F	0.7	V
Reverse current V _R =V _{RRM} , T _A =25°C	I _R	0.5	mA
T _A =100°C		10	
Junction capacitance (Note 1)	C _J	150	pF
Thermal resistance Junction to case	R _{θJC}	25	°C/W
Operating temperature range	T _J	-55 to +125	°C
Storage temperature range	T _{STG}	-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

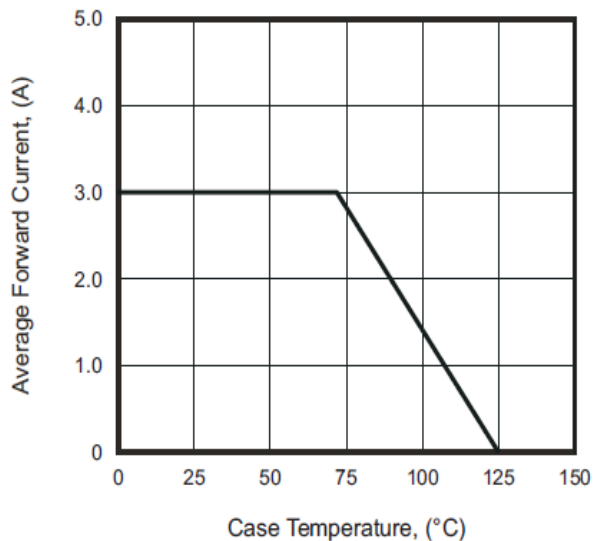


Fig.2 - Typical Forward Characteristics

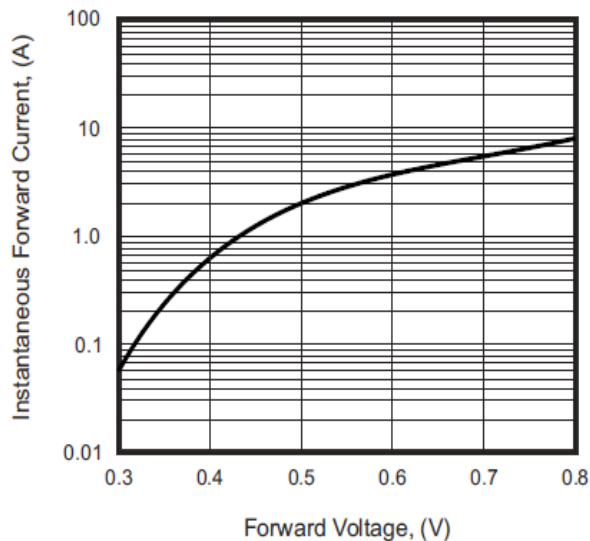


Fig.3 - Maximum Non-Repetitive Forward Surge Current

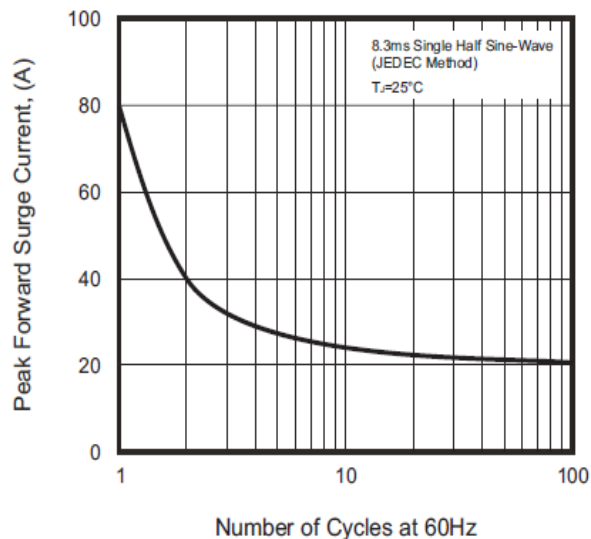


Fig.4 - Typical Reverse Characteristics

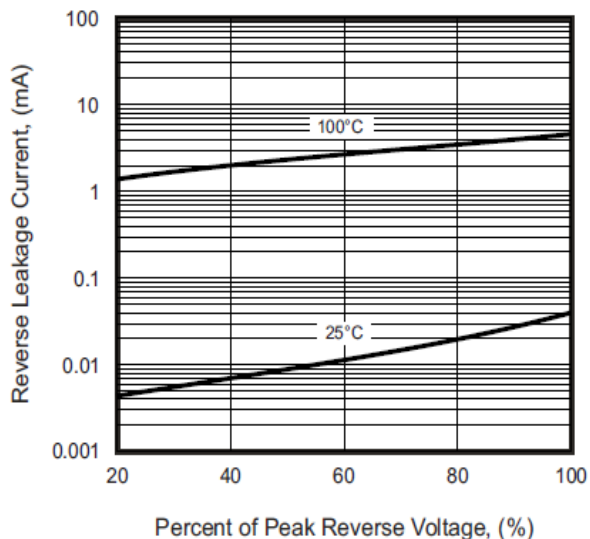
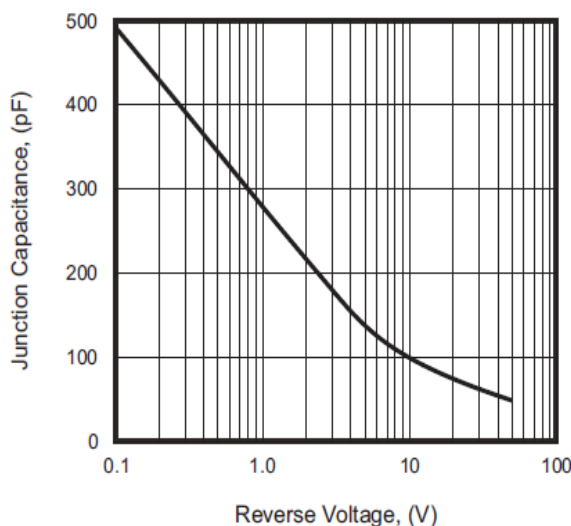


Fig.5 - Typical Junction Capacitance





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