

Surface Mount Schottky Barrier Rectifiers

SS810C

100 V

8A

SMC/DO-214AB

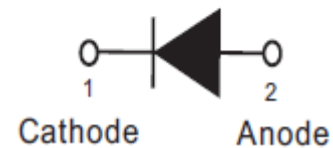
Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- For surface mounted applications in order to optimize board space.
- Low power loss, high efficiency.
- High surge capacity.
- Lead free in compliance with EU RoHS 2.0.
- Green molding compound as per IEC 61249 standard.

Mechanical Data

- Case: JEDEC DO-214AB molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026.
- Polarity: Color band denotes cathode end.
- Standard packaging: 16mm tape (EIA-481).
- Weight: 0.0082 ounces, 0.2325 grams.

SMC/DO-214AB



Maximum Ratings and Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

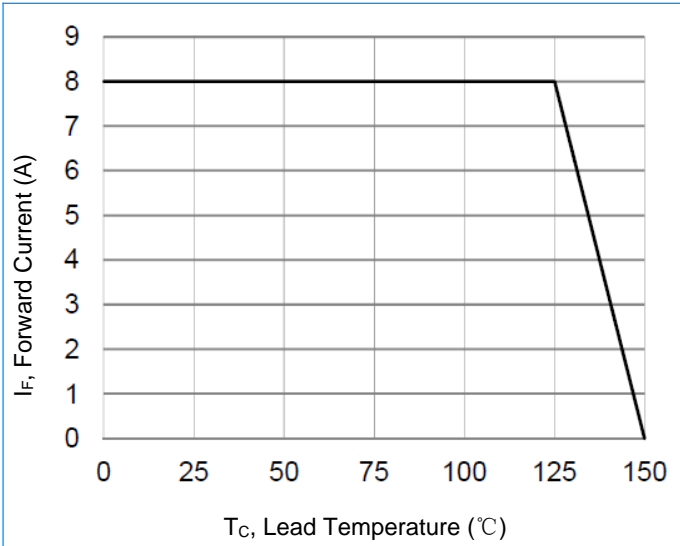
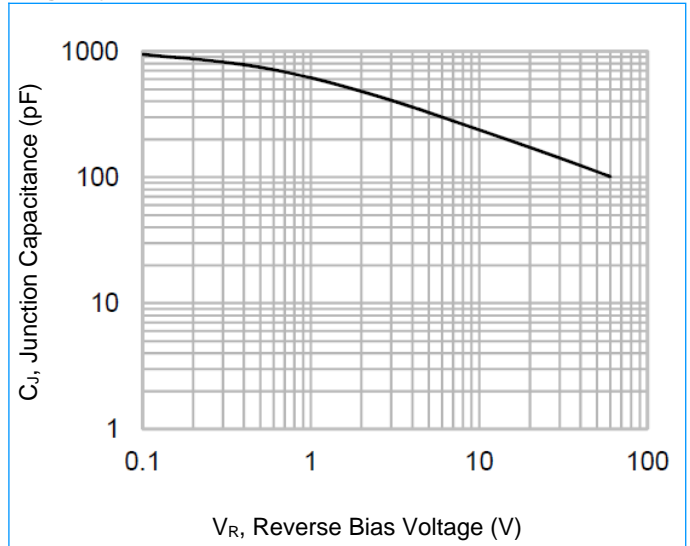
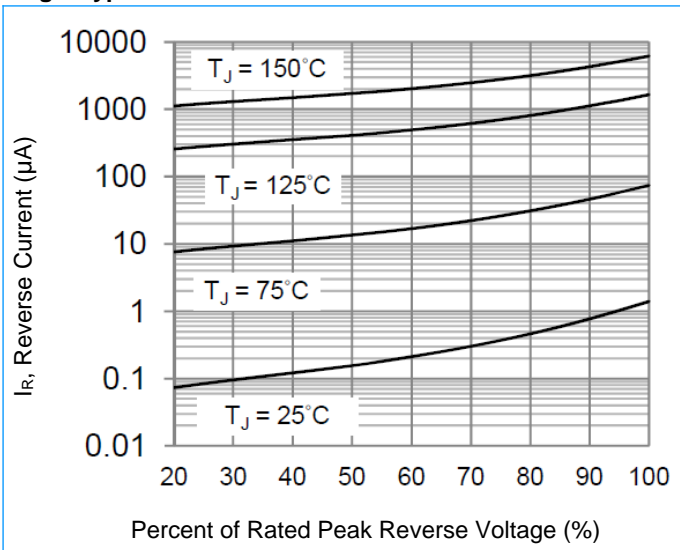
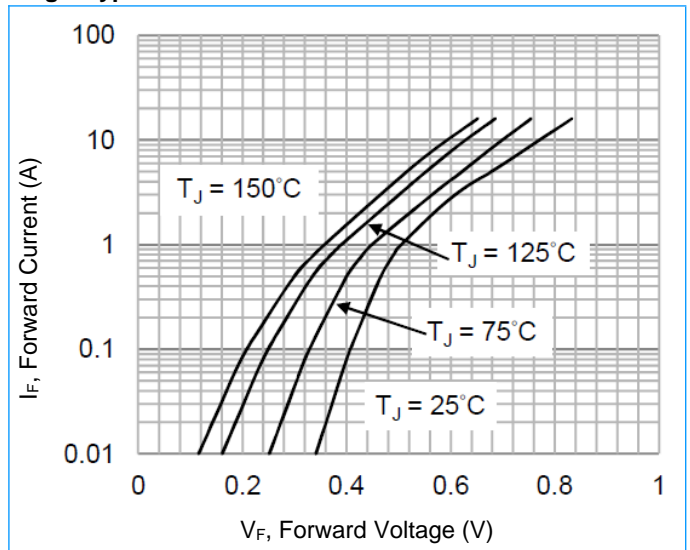
Parameter	Symbol	SS810C	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Current	$I_{F(AV)}$	8	A
Peak Forward Surge Current : 8.3ms Single Half Sinewave Superimposed on Rated Load	I_{FSM}	150	A
Maximum Forward Voltage at 8A	V_F	0.8	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	50	μA
Typical Thermal Resistance	$R_{\theta JL}$ (Note 1) $R_{\theta JA}$ (Note 2)	15 110	$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

- Notes:**
- Mounted on a FR4 PCB, single-sided copper, with 100cm^2 copper pad area.
 - Mounted on a FR4 PCB, single-sided copper, mini pad.

Surface Mount Schottky Barrier Rectifiers

SS810C
100 V
8A
SMC/DO-214AB

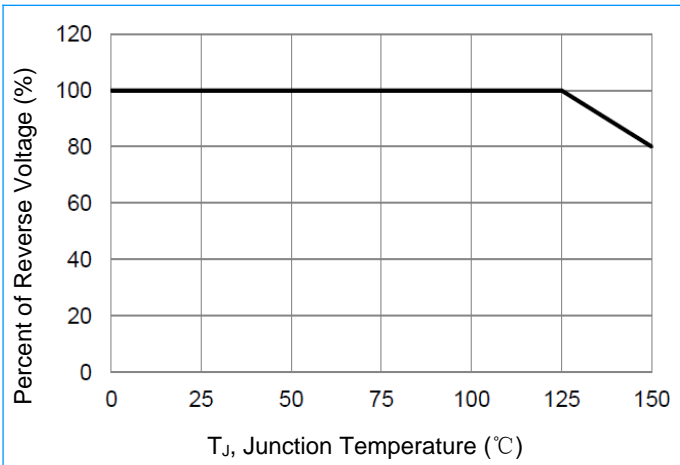
Typical Characteristic Curves

Fig1. Forward Current Derating Curve

Fig2. Typical Junction Capacitance

Fig3. Typical Reverse Characteristics

Fig4. Typical Forward Characteristics


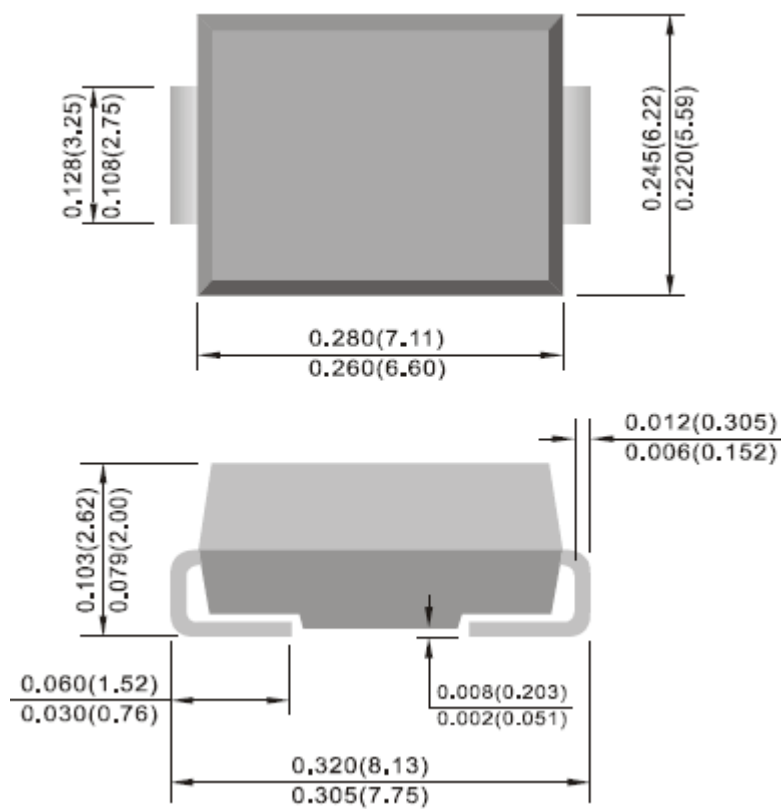
Surface Mount Schottky Barrier Rectifiers

SS810C
100 V
8A
SMC/DO-214AB

Typical Characteristic Curves (Continue)

Fig5. Operating Temperature Derating Curve


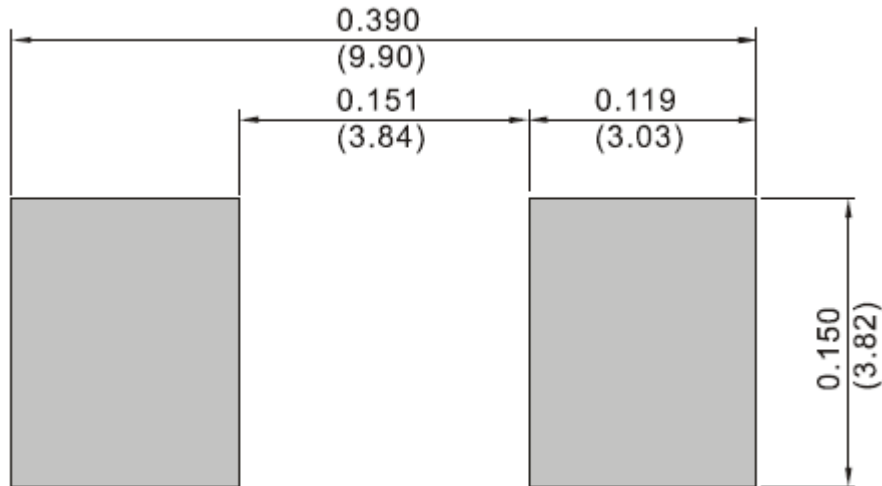
SMC/DO-214AB Package Outline (Unit: inch(mm))



Surface Mount Schottky Barrier Rectifiers

SS810C
100 V
8A
SMC/DO-214AB

SMC/DO-214AB Mounting Pad Layout (Unit: inch(mm))



Packaging Information

Part Number	Component Package	Quantity	Packaging Option
SS810C	SMC/DO-214AB	3000 PCS	per 13" plastic Reel
		800 PCS	per 7" plastic Reel