Surface Mount Schottky Barrier Rectifier Reverse Voltage - 100 V

Forward Current - 3.0A

Features

- · Metal silicon junction, majority carrier conduction
- For surface mounted applications
- · Low power loss, high efficiency
- · High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

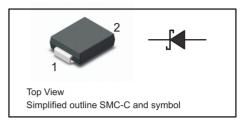
· Case: SMC-C

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 217mg / 0.0077oz

PINNING

PIN	DESCRIPTION	
1	Cathode	
2	Anode	



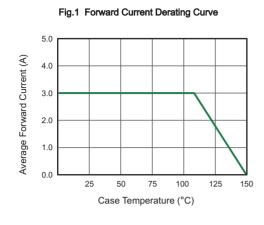
Absolute Maximum Ratings and Electrical characteristics

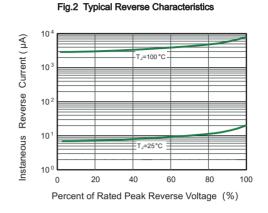
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

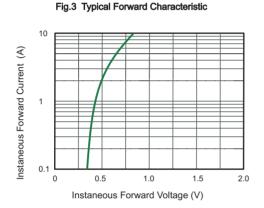
Parameter	Symbols	SST310CCM	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current @ Fig.1	I _{F(AV)}	3.0	А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80	А
Peak Forward Surge Current,1.0ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	160	А
I ² t Rating for fusing (3ms≤t≤8.3ms)	l ² t	26.5	A ² S
Max Instantaneous Forward Voltage at 3 A	V _F	0.6	V
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Reverse Voltage $T_a = 100^{\circ}C$	I _R	0.3 10	mA
Typical Junction Capacitance (1)	Cj	260	pF
Typical Thermal Resistance (2)	R _{0JA} R _{0JC} R _{0JL}	37 10 13	°C/W
Operating Junction Temperature Range	Tj	-55 ~ + 150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

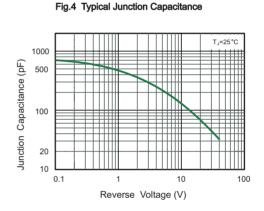
⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

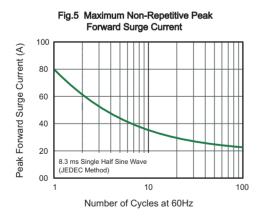
⁽²⁾ P.C.B. mounted with 1.5" X 1.5" (3.81 X 3.81 cm) copper pad areas.







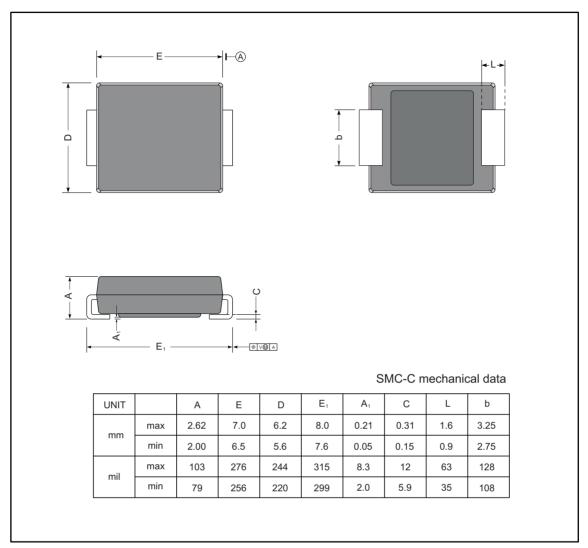




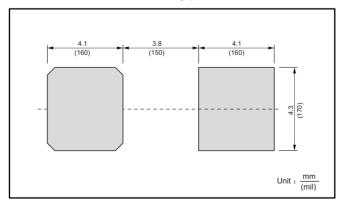
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMC-C



The recommended mounting pad size



Marking

Type number	Marking code
SST310CCM	ST310

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