

**Surface Mount Schottky Barrier Rectifier**
**Reverse Voltage - 45 to 100V**
**Forward Current - 10.0A**
**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
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.22g / 0.0077oz

**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode



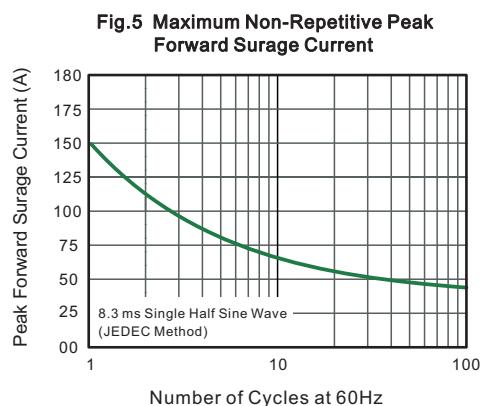
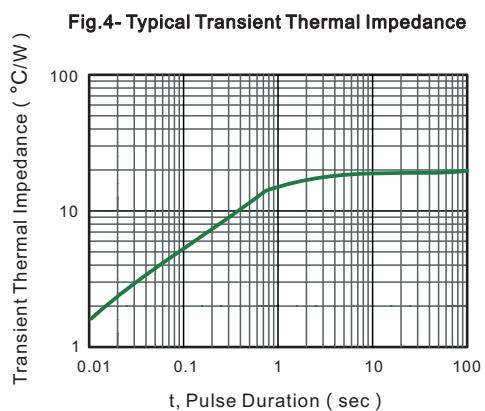
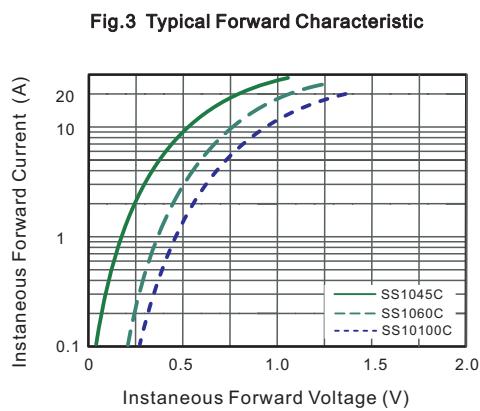
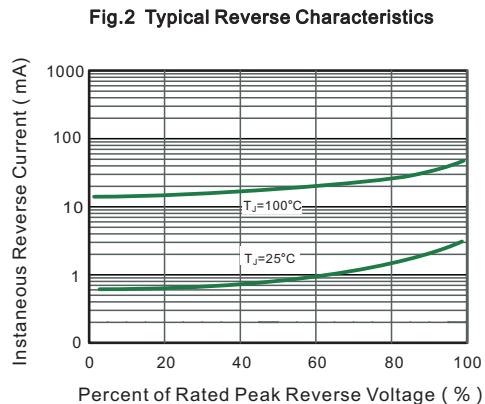
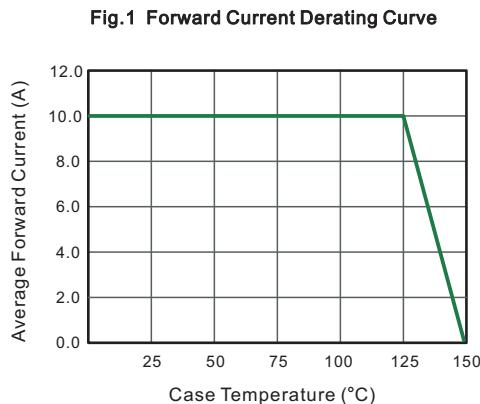
Top View  
 Marking Code: S1045 ~ S10100  
 Simplified outline SMC and symbol

**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	SS1045C	SS1060C	SS10100C	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	45	60	100	V
Maximum RMS voltage	$V_{RMS}$	32	42	70	V
Maximum DC Blocking Voltage	$V_{DC}$	45	60	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	10.0			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	150			A
Max Instantaneous Forward Voltage @10.0 A	$V_F$	0.55	0.75	0.90	V
Maximum DC Reverse Current $T_j = 25^\circ C$ at Rated DC Reverse Voltage $T_j = 100^\circ C$	$I_R$	0.5 50			mA
Typical Thermal Resistance	$R_{\theta JA}$	20			°C/W
Operating Junction Temperature Range	$T_j$	-55 ~ +150			°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150			°C

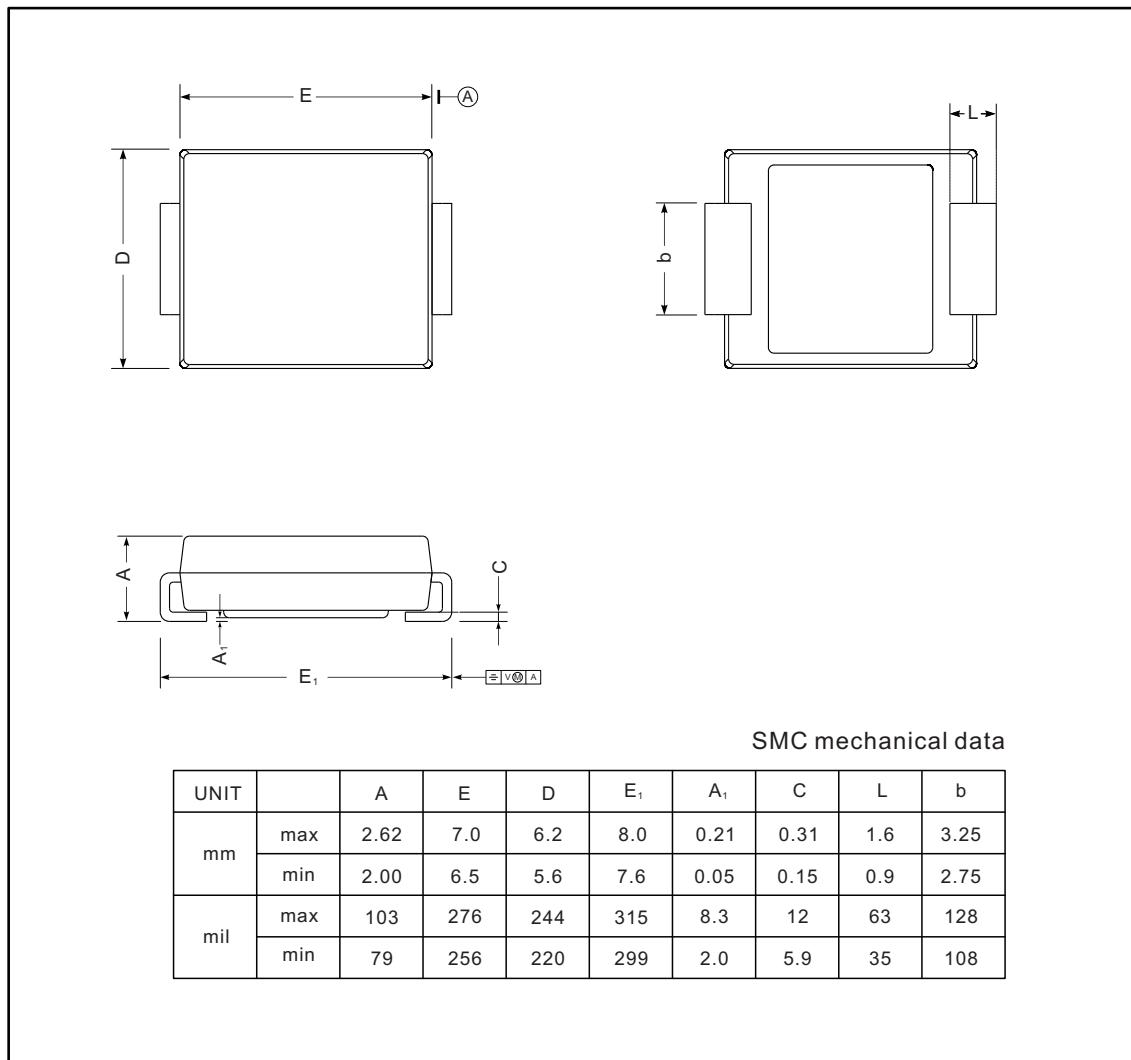
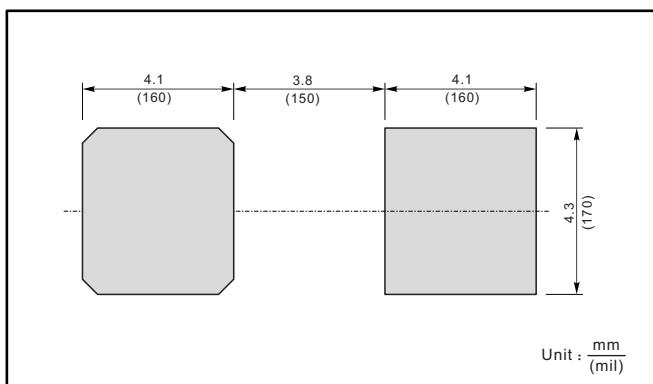
(1) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SMC


**The recommended mounting pad size**

**Marking**

Type number	Marking code
SS1045C	S1045
SS1060C	S1060
SS10100C	S10100