

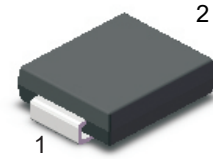


SS1045C-PJ~SS10100C-PJ Schottky Barrier Rectifiers

Features

- For surface mount applications
- High forward surge current capability
- Low profile package
- High efficiency
- Metal silicon junction, majority carriers conduction

SMC



Marking Code :

SS1045C: S1045

SS1060C: S1060

SS10100C: S10100

Absolute Maximum Ratings and Electrical Characteristics

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

| Parameter | Symbols | SS1045C-PJ | SS1060C-PJ | SS10100C-PJ | 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 |
| Maximum Instantaneous Forward Voltage at 10 A | V_F | 0.55 | 0.75 | 0.90 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ | I_R | 0.5 50 | | | mA |
| Typical Thermal Resistance ^{Note1} | $R_{\theta JA}$ | 20 | | | °C/W |
| Junction Temperature | T_J | 150 | | | °C |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | °C |

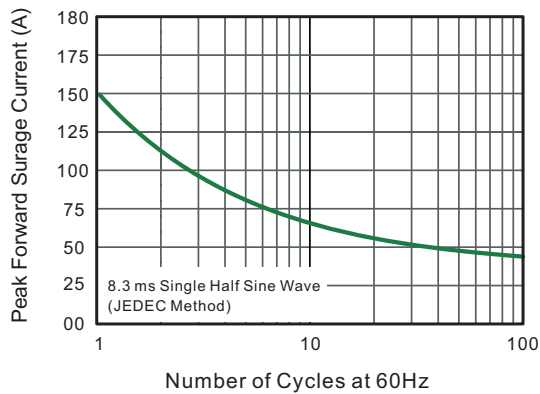
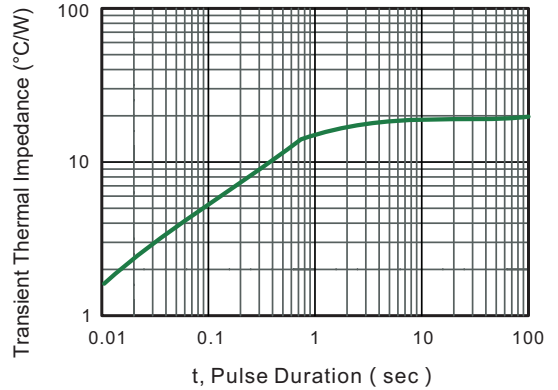
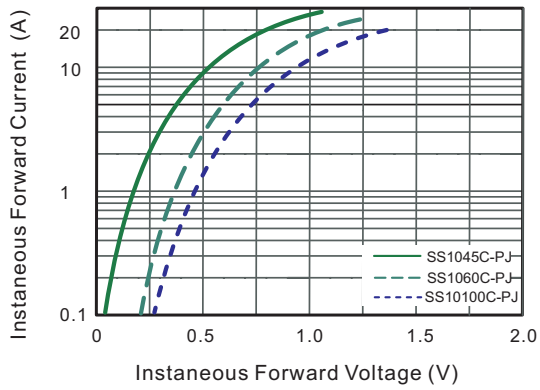
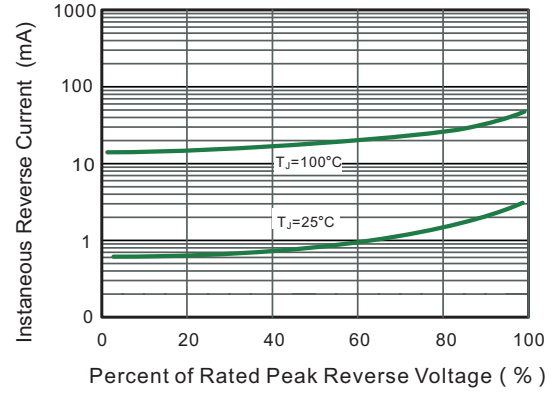
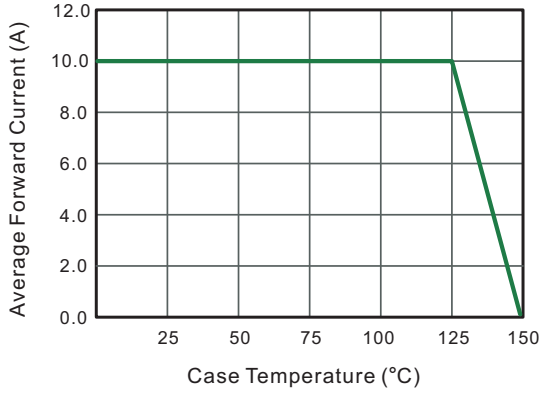
Note:

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



SS1045C-PJ~SS10100C-PJ Schottky Barrier Rectifiers

Typical Characteristic Curves



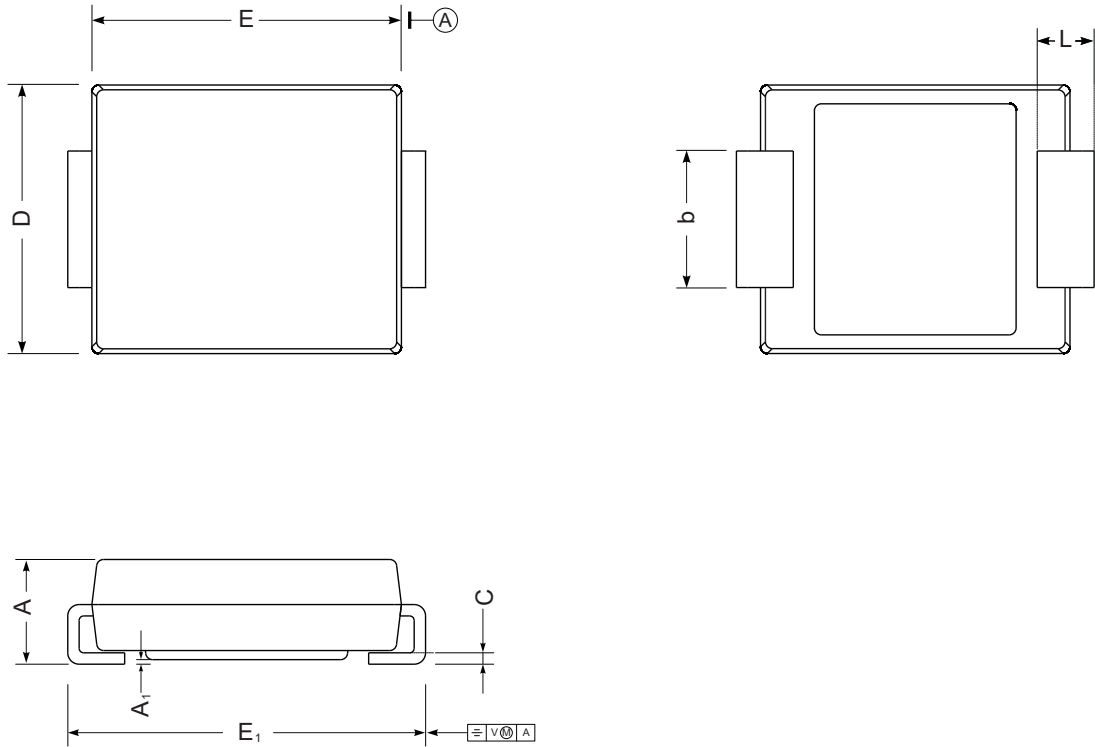


SS1045C-PJ~SS10100C-PJ Schottky Barrier Rectifiers

Package Outline

SMC

Dimensions in mm



| UNIT | | A | E | D | E ₁ | A ₁ | C | L | b |
|------|-----|------|-----|-----|----------------|----------------|------|-----|------|
| mm | max | 2.62 | 7.0 | 6.2 | 8.0 | 0.21 | 0.31 | 1.6 | 3.25 |
| | min | 2.00 | 6.5 | 5.6 | 7.6 | 0.05 | 0.15 | 0.9 | 2.75 |
| mil | max | 103 | 276 | 244 | 315 | 8.3 | 12 | 63 | 128 |
| | min | 79 | 256 | 220 | 299 | 2.0 | 5.9 | 35 | 108 |