Ordering number : ENN8067

SANYO Semiconductors
DATA SHEET

# SS0503SH — Schottky Barrier Diode 30V, 0.5A Rectifier

## Applications

- High frequency rectification (switching regulators, converters, choppers).

## Features

- Low forward voltage ($I_F$=0.3A, $V_F$ max=0.42V) ($I_F$=0.5A, $V_F$ max=0.47V).
- Ultrasmall package permitting applied sets to be small and slim.

## Specifications

### Absolute Maximum Ratings at Ta=25°C

| Parameter | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Repetitive Peak Reverse Voltage | $V_{RRM}$ | | 30 | V |
| Nonrepetitive Peak Reverse Surge Voltage | $V_{RSM}$ | | 30 | V |
| Average Output Current | $I_O$ | | 0.5 | A |
| Surge Forward Current | $I_{FSM}$ | 50Hz sine wave, 1 cycle | 5 | A |
| Junction Temperature | Tj | | −55 to +125 | °C |
| Storage Temperature | Tstg | | −55 to +125 | °C |

### Electrical Characteristics at Ta=25°C

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|---|---|---|---|---|---|
| | | | min | typ | max | |
| Reverse Voltage | $V_R$ | $I_R$=0.5mA | 30 | | | V |
| Forward Voltage | $V_F1$ | $I_F$=0.3A | | 0.37 | 0.42 | V |
| | $V_F2$ | $I_F$=0.5A | | 0.42 | 0.47 | V |
| Reverse Current | $I_R$ | $V_R$=15V | | | 120 | μA |
| Interterminal Capacitance | C | $V_R$=10V, f=1MHz | | 13 | | pF |
| Reverse Recovery Time | $t_{rr}$ | $I_F$=$I_R$=100mA, See specified Test Circuit. | | | 10 | ns |

Marking : SB




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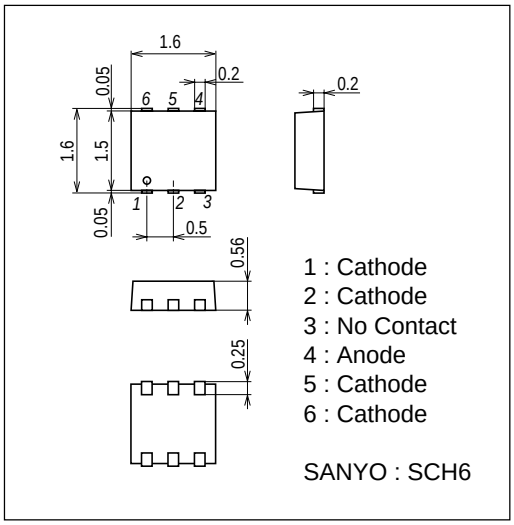
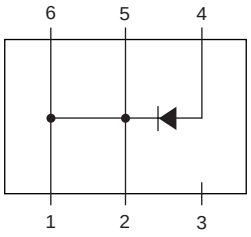
## Package Dimensions

unit : mm

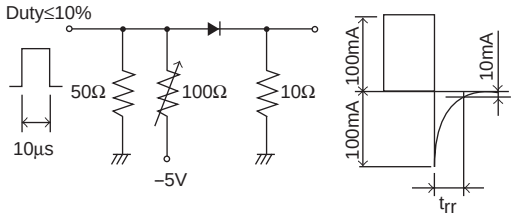
1329A

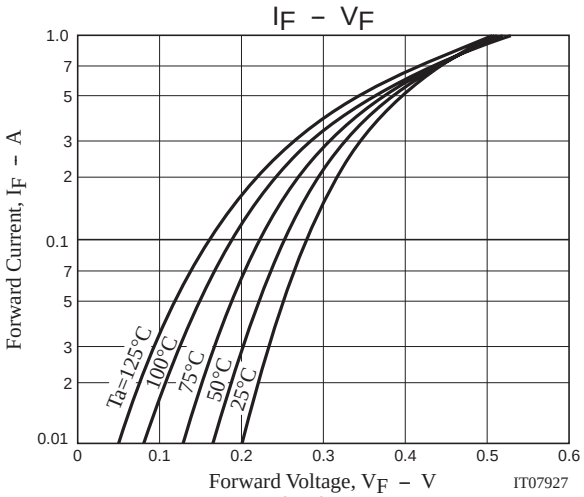


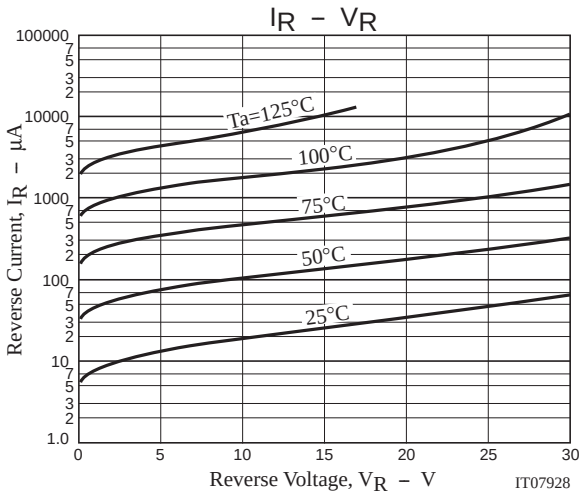

## Electrical Connection(Top view)

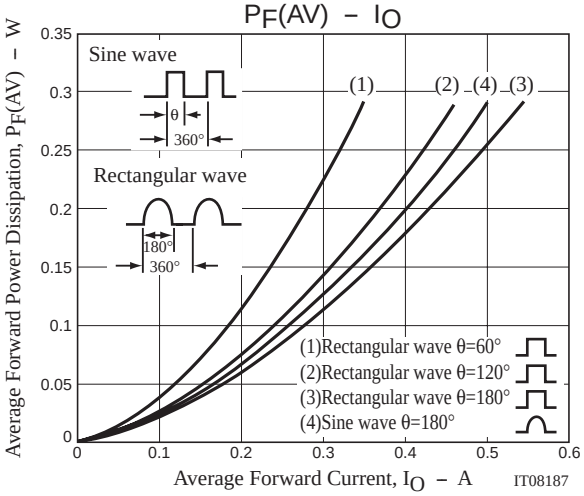


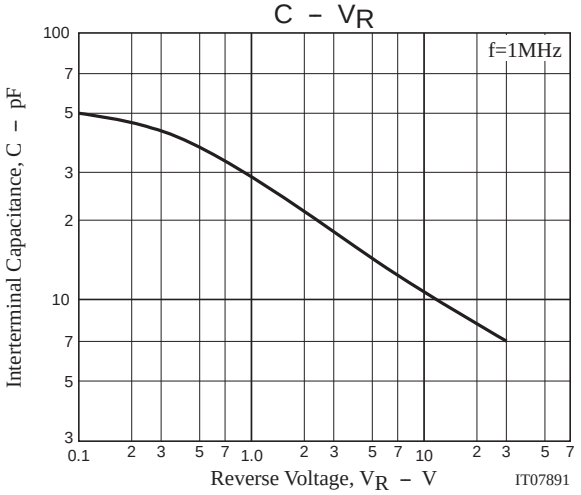

## $t_{rr}$ Test Circuit

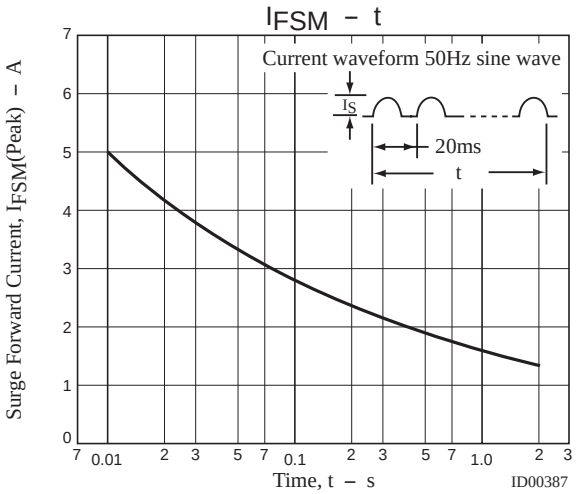




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