



SANYO Semiconductors

## DATA SHEET

# SB10-015C

 — Schottky Barrier Diode  

## 15V, 1A Rectifier

### Applications

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

### Features

- Low forward voltage ( $V_F$  max=0.55V).
- Fast reverse recovery time ( $t_{rr}$  max=10ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.
- Small-sized package permitting SB10-015C-applied sets to be compact and slim.

### Specifications

#### Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		15	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$		17	V
Average Output Current	$I_O$		1	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	5	A
Junction Temperature	$T_J$		-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

#### Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=300\mu\text{A}$	15			V
Forward Voltage	$V_{F1}$	$I_F=1\text{A}$			0.55	V
	$V_{F2}$	$I_F=100\text{mA}$			0.40	V
Reverse Current	$I_R$	$V_R=7.5\text{V}$			50	$\mu\text{A}$
Interterminal Capacitance	C	$V_R=10\text{V}$ , $f=1\text{MHz}$		30		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=100\text{mA}$ , See specified Test Circuit.			10	ns
Thermal Resistance	$R_{th(j-a)}$			420		$^\circ\text{C}/\text{W}$

Marking : S

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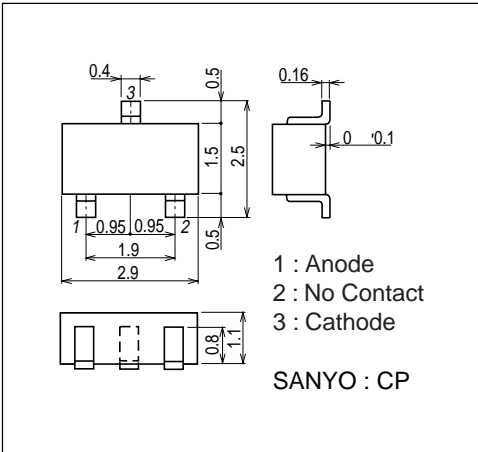
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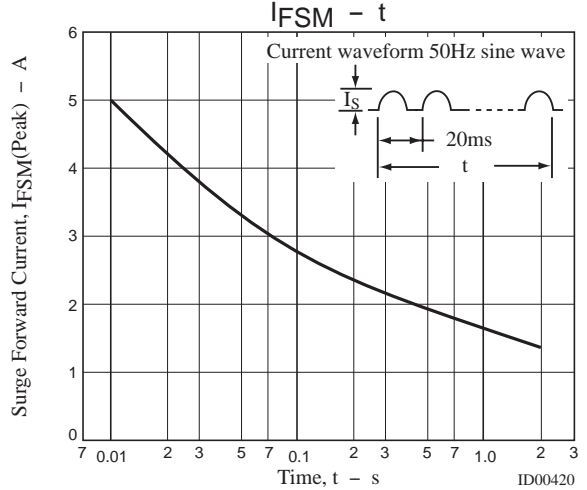
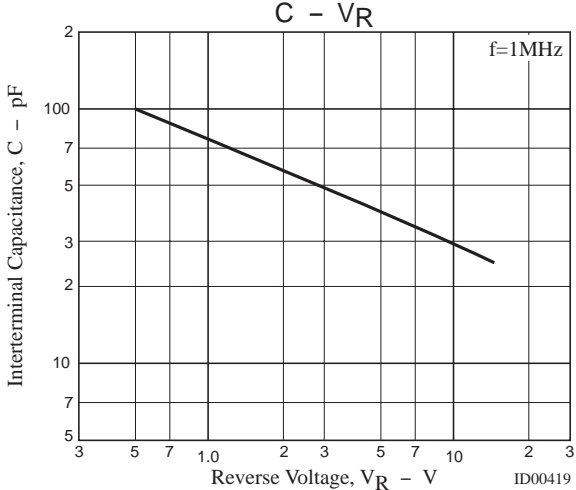
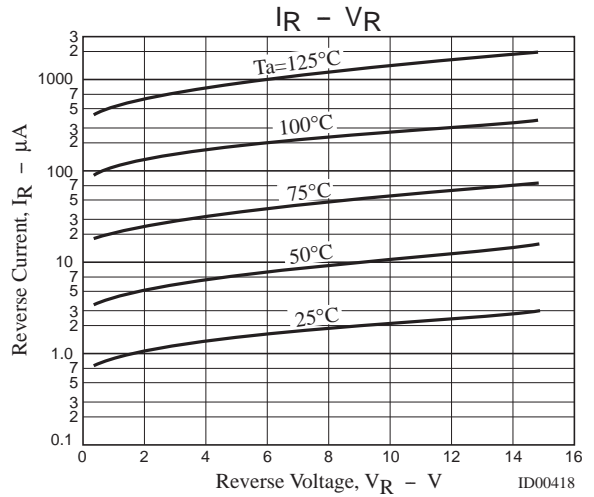
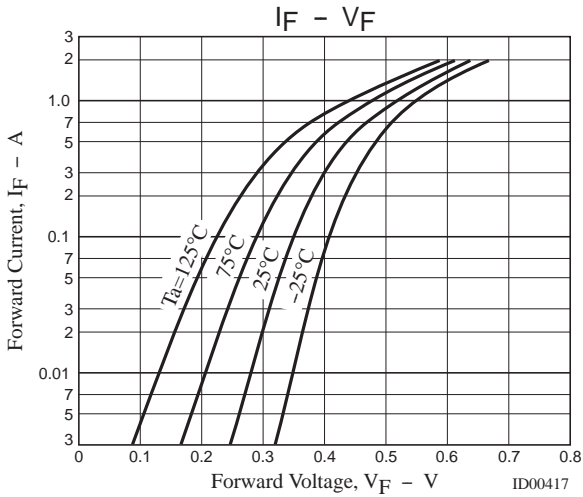
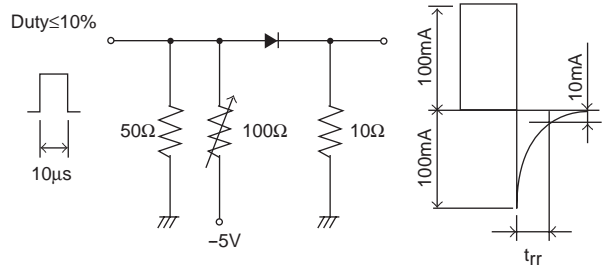
# SB10-015C

## Package Dimensions

unit : mm  
1148A



## t<sub>rr</sub> Test Circuit



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