

**SBS004****15V, 1A Rectifier**

## Applications

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

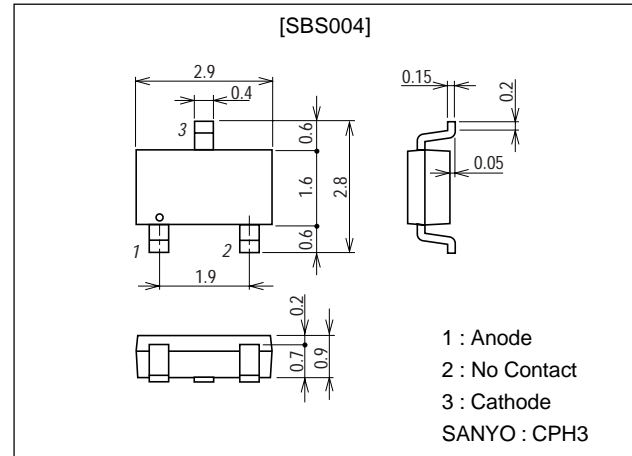
## Features

- Low forward voltage ( $I_F=0.5A$ ,  $V_F \text{ max}=0.35V$ ) ( $I_F=1.0A$ ,  $V_F \text{ max}=0.4V$ ).
- Ultrasmall-sized package, permitting SBS004-applied sets to be compact and slim.

## Package Dimensions

unit:mm

1293



## 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	$V_{RSM}$		15	V
Average Output Current	$I_O$		1	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	10	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	$V_R$	$I_R=1mA$	15			V
Forward Voltage	$V_{F1}$	$I_F=0.5A$		0.30	0.35	V
	$V_{F2}$	$I_F=1A$		0.35	0.40	V
Reverse Current	$I_R$	$V_R=6V$			500	$\mu\text{A}$
Interterminal Capacitance	C	$V_R=10V$ , $f=1MHz$		42		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=100mA$ , See specified Test Circuit.			15	ns
Thermal Resistance	$R_{th(j-a)}$	Mounted on a ceramic board (600mm $\times$ 0.8mm)		110		$^\circ\text{C/W}$

Marking : SC

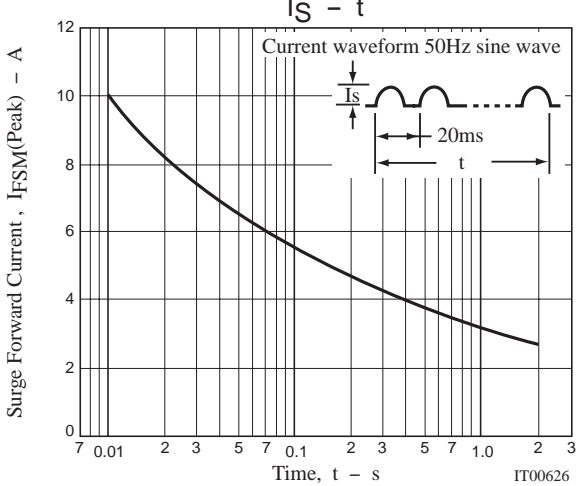
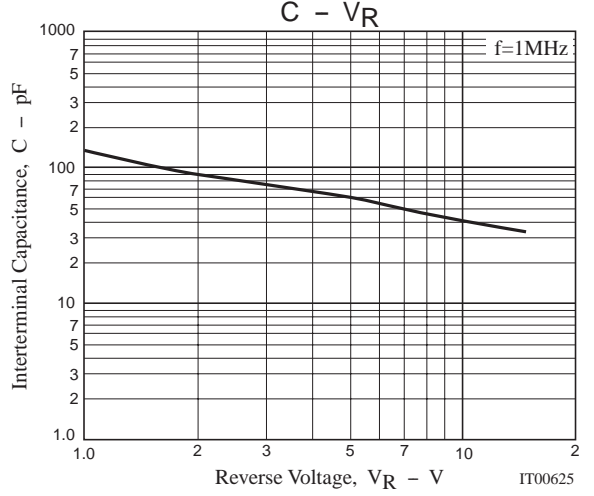
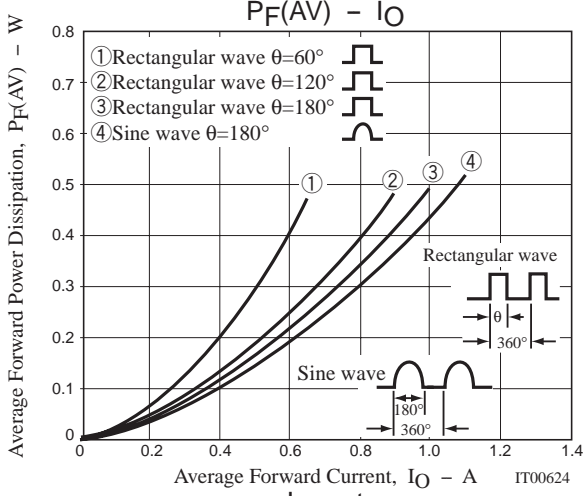
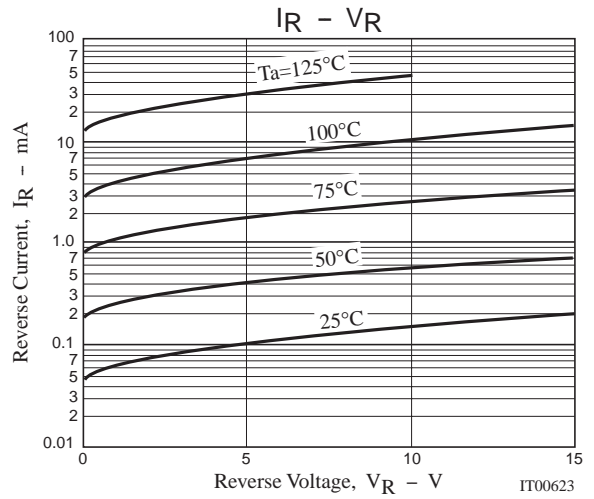
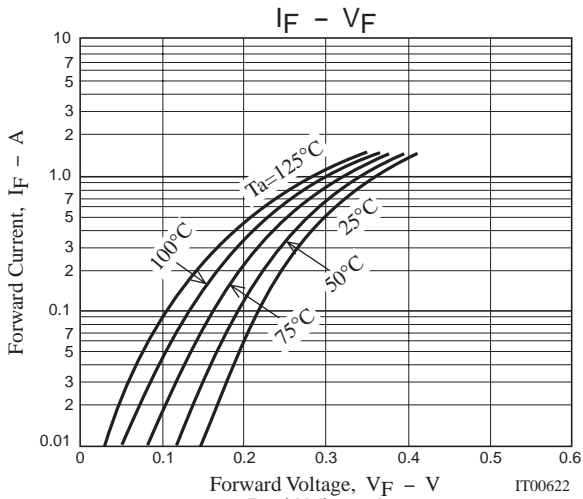
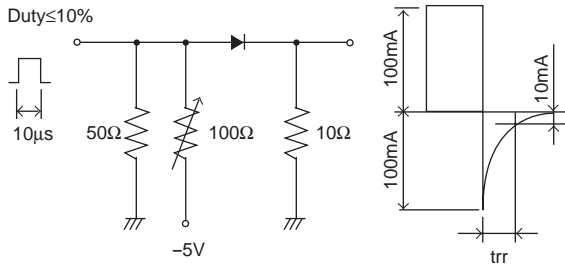
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**t<sub>rr</sub> Test Circuit**



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