

# SBS001C

**Schottky Barrier Diode** 

# 15V, 500mA Rectifier

## **Applications**

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

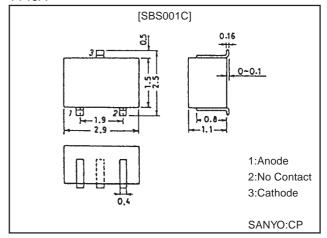
## **Features**

- · Low forward voltage ( $V_F$  max=0.45V).
- · Low leakage current and high reliability due to highly reliable planar structure.
- · Small-sized package permitting SBS001C-applied sets to be compact and slim.

# **Package Dimensions**

unit:mm

1148A



# **Specifications**

### Absolute Maximum Ratings at Ta = 25°C (Value per element)

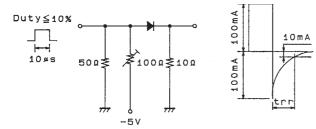
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		12	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		15	V
Average Output Current	I <sub>O</sub>		500	mA
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1 cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

#### **Electrical Characteristics at Ta = 25°C**

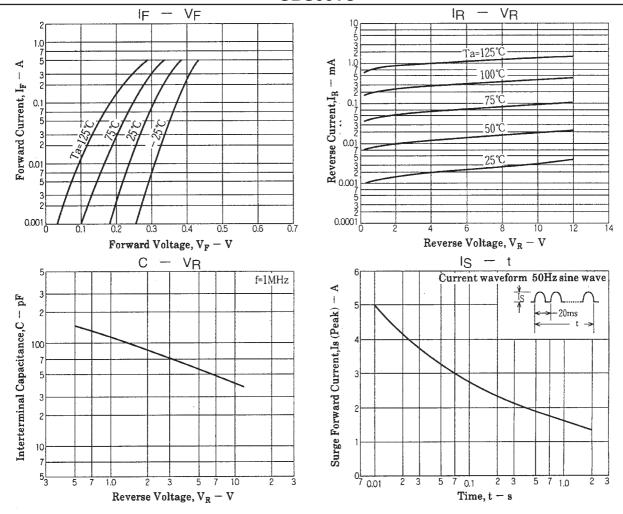
Parameter	Symbol	Conditons	Ratings			Unit
	Symbol		min	typ	max	Offic
Reverse Voltage	VR	I <sub>R</sub> =400μA	12			V
Forward Voltage	٧F	I <sub>F</sub> =500mA		0.4	0.45	V
Reverse Current	IR	V <sub>R</sub> =6V			200	μA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		45		pF
Reverse Recovery Time	trr	I <sub>F</sub> =I <sub>R</sub> =100mA, See specified Test Circuit.		50		ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)			560		°C/W

#### Marking:T

#### **Trr Test Circuit**



## **SBS001C**



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