

SBS001C

Schottky Barrier Diode

15V, 500mA Rectifier

Applications

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

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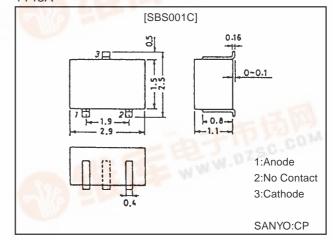
Features

- · Low forward voltage ($V_F \text{ max}=0.45V$).
- · 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)

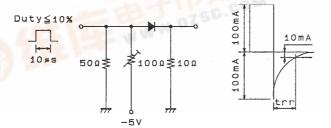
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		12	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		15	V
Average Output Current	Io	A PART OF THE PART	500	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	Α
Junction Temperature	Tj	180 7 4 4 4	-55 to +125	°C
Storage Temperature	Tstg	LEN SING	-55 to +125	°C

Electrical Characteristics at Ta = 25°C

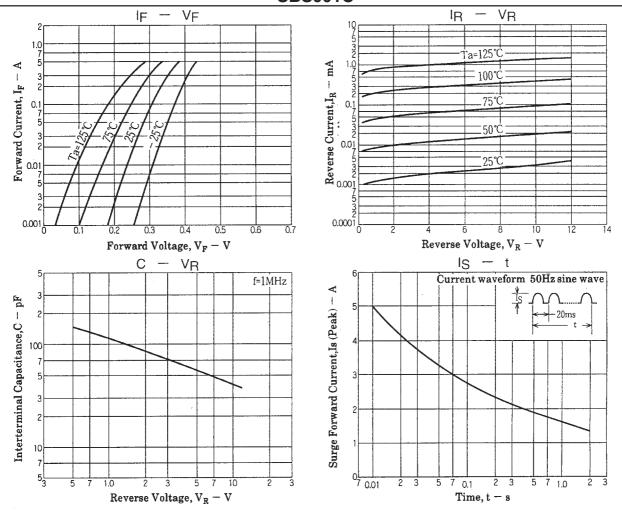
Parameter	Symbol	Conditons		Ratings		
	Symbol		min	typ	max	Unit
Reverse Voltage	٧R	I _R =400μA	12			V
Forward Voltage	٧F	I _F =500mA		0.4	0.45	V
Reverse Current	I _R	V _R =6V			200	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		45		pF
Reverse Recovery Time	trr	I _F =I _R =100mA, See specified Test Circuit.		50	200	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)	/ 8% \%	E WW	560		°C/W

Marking:T

Trr Test Circuit



SBS001C



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