



SBS001C

Schottky Barrier Diode

15V, 500mA Rectifier

Applications

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

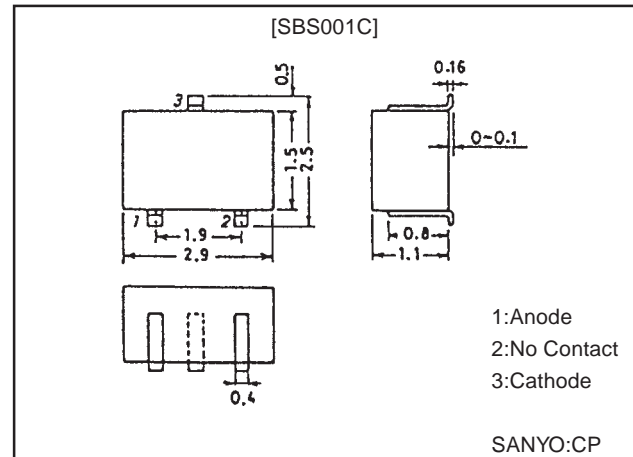
Features

- 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 $T_a = 25^\circ\text{C}$ (Value per element)

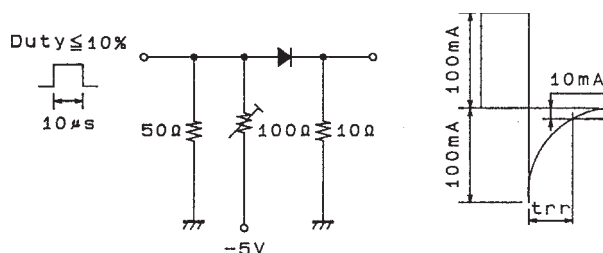
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		12	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		15	V
Average Output Current	I_O		500	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	5	A
Junction Temperature	T_j		-55 to +125	$^\circ\text{C}$
Storage Temperature	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	$I_R=400\mu\text{A}$	12			V
Forward Voltage	V_F	$I_F=500\text{mA}$		0.4	0.45	V
Reverse Current	I_R	$V_R=6\text{V}$			200	μA
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		45		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$, See specified Test Circuit.		50		ns
Thermal Resistance (Junction-Ambient)	$R_{th(j-a)}$			560		$^\circ\text{C/W}$

Marking:T

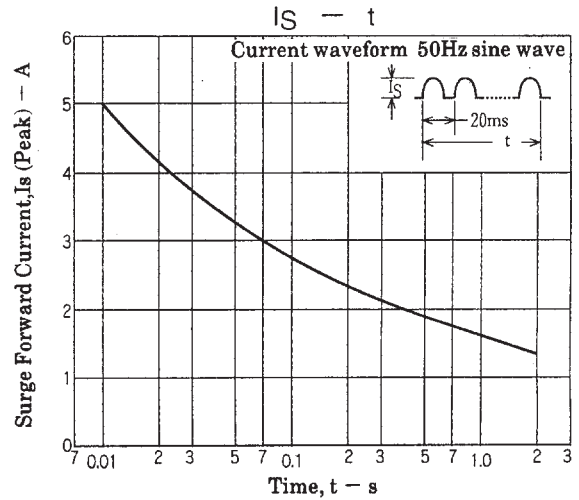
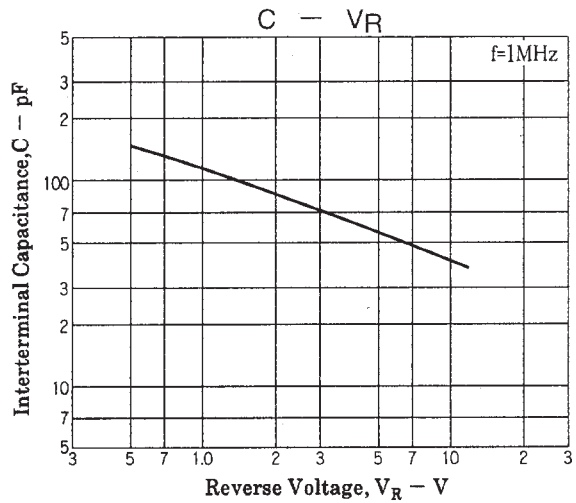
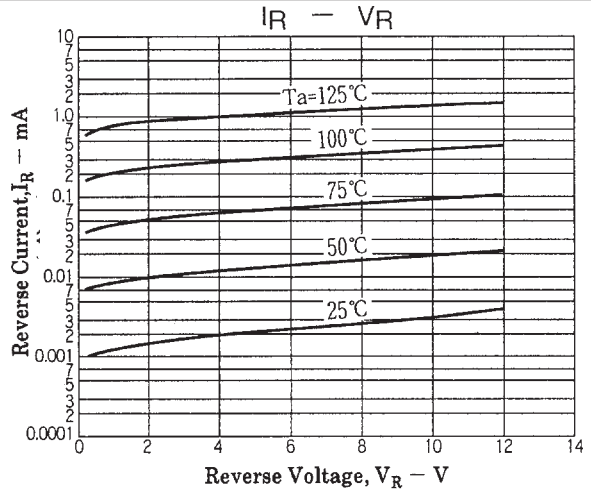
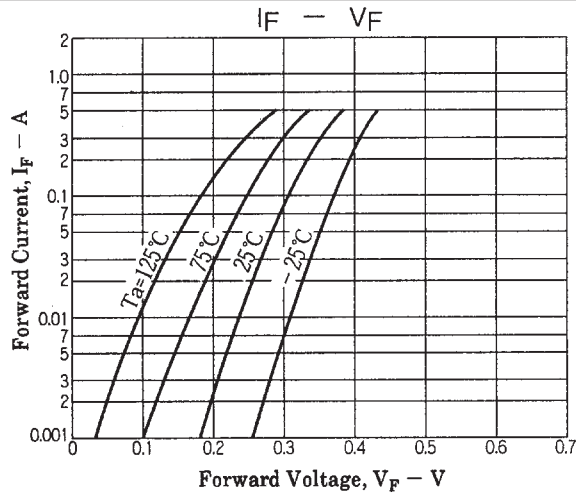
T_{rr} Test Circuit



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