



# 90V, 200mA Rectifier

# **Applications**

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

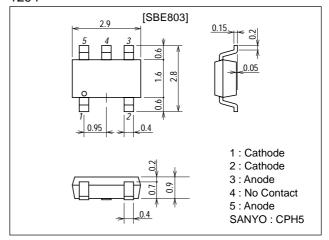
### **Features**

- · Low forward voltage ( $V_F$  max=0.7V).
- · Fast reverse recovery time ( $t_{rr}$  max=10ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

# **Package Dimensions**

unit:mm

1294



# **Specifications**

### **Absolute Maximum Ratings** at $Ta = 25^{\circ}C$ (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		90	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		95	V
Average Output Current	IO		200	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 (Value per element)

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧ <sub>R</sub>	I <sub>R</sub> =200μA	90			V
Forward Voltage	٧F	I <sub>F</sub> =200mA			0.7	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =45V			50	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		10		pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm <sup>2</sup> ×0.8mm)			110	°C/W

Marking : SB

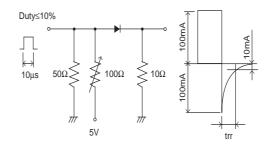
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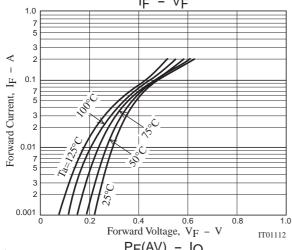
### **Electrical Connection**

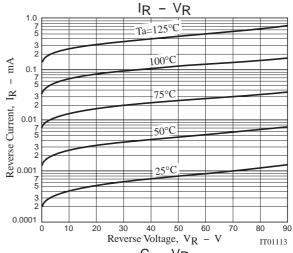
# 5 4 3

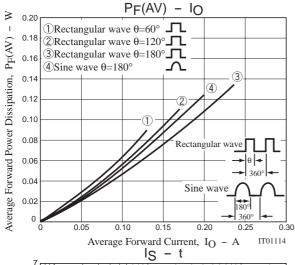
- 1 : Cathode
- 2 : Cathode
- 3 : Anode
- 4 : No Contact
- 5 : Anode

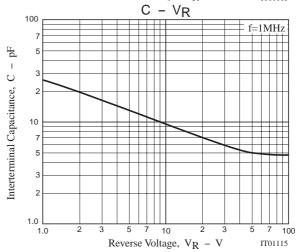
### t<sub>rr</sub> Specified Test Circuit

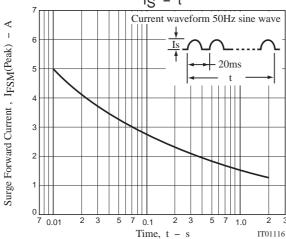












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