

# SB007-03CP

Shottky Barrier Diode

# 30V, 70mA Rectifier

# **Applications**

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

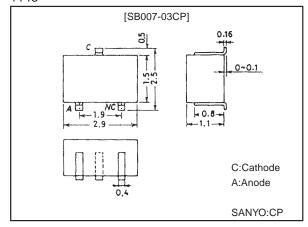
#### **Features**

- · Low forward voltage( $V_F$  max=0.55V).
- · Fast reverse recorvery time (trr max=10ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

# **Package Dimensions**

unit:mm

1148



# **Specifications**

### Absolute Maximum Ratings at Ta = 25°C

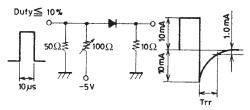
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		-30	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		-35	V
Average Output Current	lo		70	mA
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1cycle	2	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧ <sub>R</sub>	I <sub>R</sub> =-20μA	-30			V
Forward Voltage	٧F	I <sub>F</sub> =70mA			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =-15V			-5	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =-10V, f=1MHz		3.0		pF
Reverse Recorvery Time	trr	I <sub>F</sub> =I <sub>R</sub> =10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a(1)			620		°C/W
	Rthj-a(2)	Mounted on Cu-foild area of 16mm <sup>2</sup> ×0.2mm on glass epoxy board		430		°C/W

· Marking:G

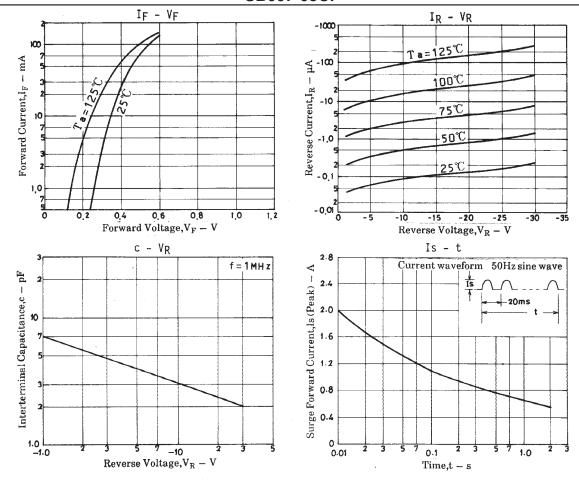
#### trr Test Circuit



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### SB007-03CP



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