

**SB07-03C** 

Shottky Barrier Diode

# 30V, 700mA Rectifier

# **Applications**

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

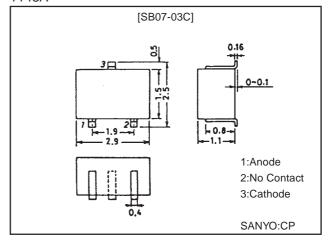
### **Features**

- · 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

1148A



# **Specifications**

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

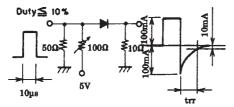
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	Io		700	mA
Surge Forward Current	IFSM	50Hz sine wave, 1cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

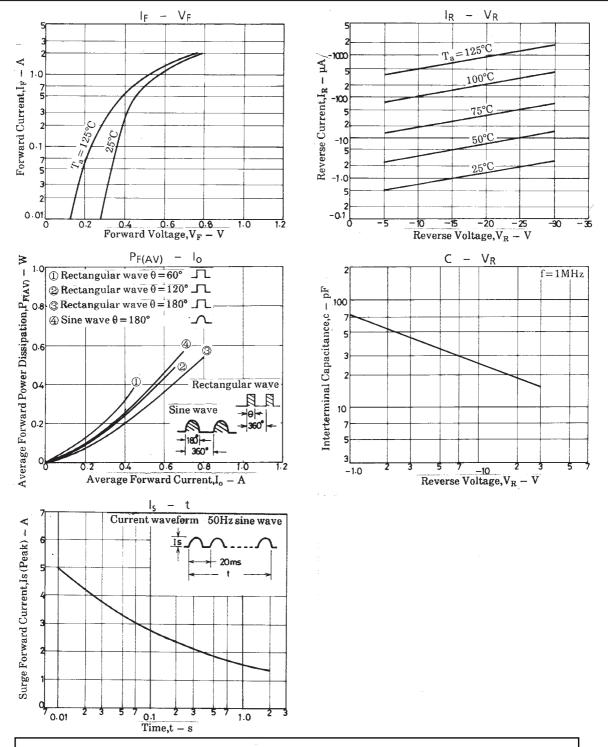
## Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧ <sub>R</sub>	I <sub>R</sub> =300μA	30			V
Forward Voltage	٧F	I <sub>F</sub> =700mA			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =15V			80	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		25		pF
Reverse Recorvery Time	trr	I <sub>F</sub> =I <sub>R</sub> =100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a(1)			420		°C/W
	Rthj-a(2)	Mounted on Cu-foild area of 16mm <sup>2</sup> ×0.2mm on glass epoxy board		330		°C/W

#### · Marking:J

#### trr Test Circuit





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