

### SB007W03C

Schottky Barrier Diode (Twin Type - Cathode Common)

# 30V, 70mA Rectifier

### **Applictions**

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

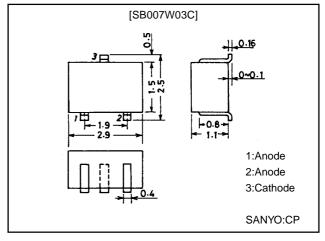
#### **Features**

- · Low forward voltage ( $V_F$  max=0.55V).
- $\cdot$  Fast reverse recovery time ( $t_{rr}$  max=10ns).
- · Low switching noise.
- · Low leakage current and high reliablity due to highly reliable planar structure.

### **Package Dimensions**

unit:mm

1169A



## **Specifications**

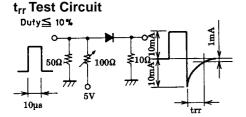
#### Absolute Maximum Ratings at Ta = 25°C

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

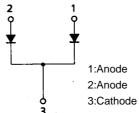
#### Electrical Characteristics at Ta = 25°C

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

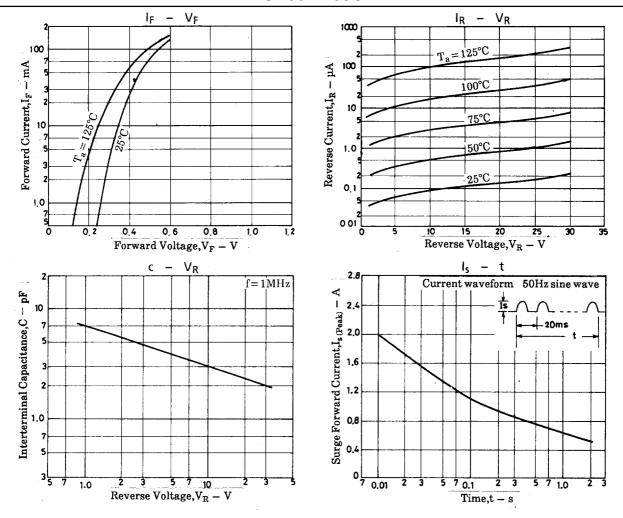
#### Marking: K



#### **Electrical Connection**



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