

SB07-015C

**Shottky Barrier Diode** 

# 15V, 700mA Rectifier

## **Applications**

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

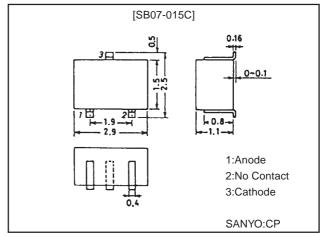
## **Features**

- · 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.
- · Small-sized package, permitting SB07-015C-applied sets to be compact and slim.

## **Package Dimensions**

unit:mm

1148A



## **Specifications**

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

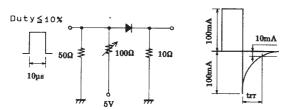
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		17	V
Average Output Current	Io		700	mA
Surge Forward Current	IFSM	50Hz sine wave, 1cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

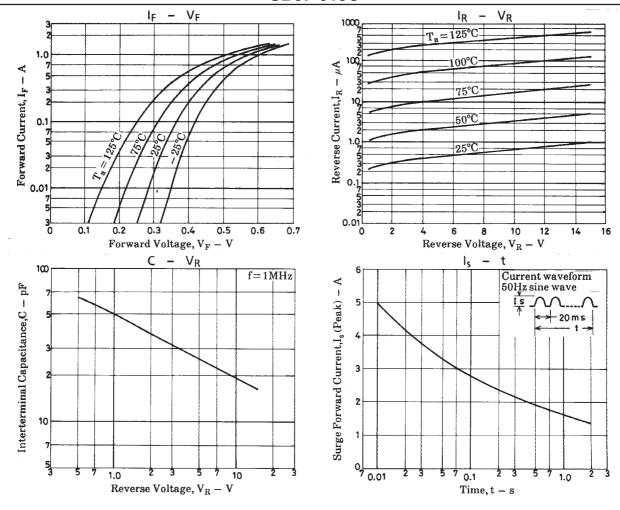
#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	٧R	I <sub>R</sub> =150μA	15			V
Forward Voltage	V <sub>F</sub> (1)	I <sub>F</sub> =700mA			0.55	V
	V <sub>F</sub> (2)	I <sub>F</sub> =100mA			0.42	V
Reverse Current	IR	V <sub>R</sub> =-15V			20	μA
Interterminal Capacitance	С	V <sub>R</sub> =-10V, f=1MHz		20		pF
Reverse Recorvery Time	trr	I <sub>F</sub> =I <sub>R</sub> =10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a			560		°C/W

### · Marking:R

### trr Test Circuit





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