

# SB002-15CP

**Shottky Barrier Diode** 

# 150V, 20mA Rectifier

### **Applications**

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

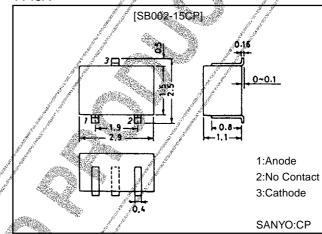
#### **Features**

- · Low forward voltage ( $V_F$  max=0.75V).
- · Fast reverse recovery time (trr max=10ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planner structure.

# **Package Dimensions**

unit:mm

1148A



## **Specifications**

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

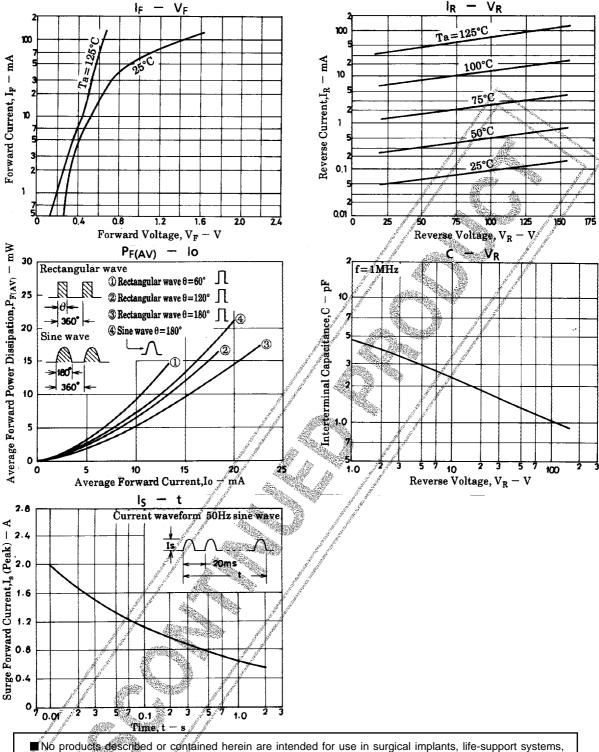
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	<sup>₩</sup> RRM	46.	150	V
Non-repetitve Peak Reverse Surge Voltage	√RSM <sup>®</sup>		155	V
Average Output Current	/ lo		20	mA
Surege Forward Current	I <sub>F\$M</sub> √	50°Hz°sme wave; 1 cycle	2	Α
Junction Temperature	Ţĵ		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

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

# F	22.3					
Parameter Symb		Conditions	Ratings			Unit
T didinctor		//	min	typ	max	O.III
Reverse Voltage	V <sub>R</sub>	ှုနို=50μA	150			V
Forward Voltage	V <sub>F</sub> /	I <sub>F</sub> =20mA			0.75	V
Reverse Current	I <sub>R</sub> /	V <sub>R</sub> =75V			15	μA
Interterminal Capacitance	/C/	V <sub>R</sub> =10V, f=1MHz		2.3		pF
Reverse Recovery Time	Arr	I <sub>F</sub> =I <sub>R</sub> =10mA, See Test Circuit.			10	ns
Thermal Resistance	Rthj-a (1)			560		°C/W
	Rthj-a (2)	Mouted in Cu-foiled area of 16mm <sup>2</sup> ×0.2mmt on glass epoxy board		410		°C/W

#### · Marking:E

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