

## **SB02-09NP**

**Shottky Barrier Diode** 

# 90V, 200mA Rectifier

### **Applications**

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

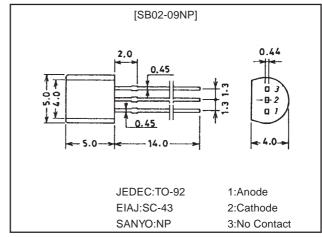
### **Features**

- · Low forward voltage ( $V_F$  max=0.7V).
- · 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

1157A



### **Specifications**

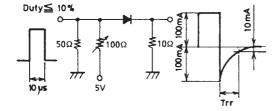
### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		90	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		95	V
Average Output Current	IO	50Hz, resistive load, Ta=88°C	200	mA
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

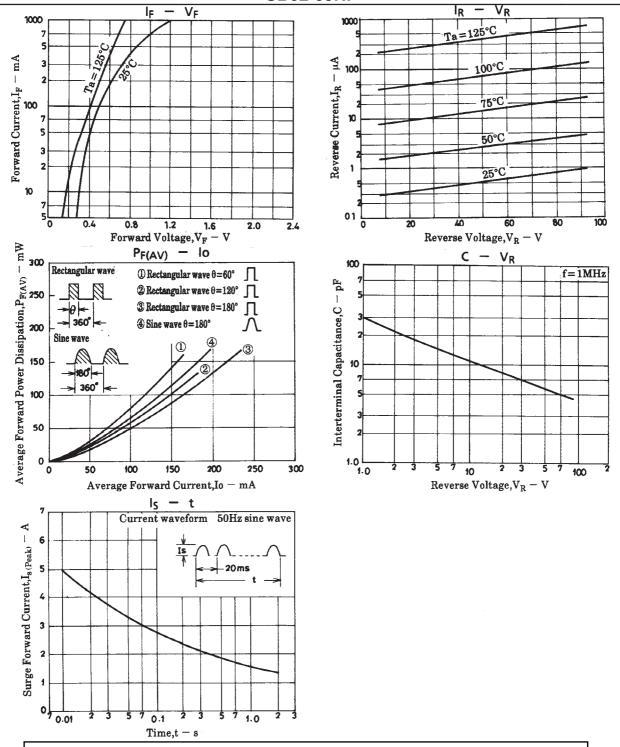
#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I <sub>R</sub> =200μA	90			V
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =200mA			0.7	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =45V			50	μA
Interterminal Capacitance	С	V <sub>R</sub> =-10V, f=1MHz		11		pF
Reverse Recorvery Time	trr	I <sub>F</sub> =I <sub>R</sub> =10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a			165		°C/W

#### ttr Test Circuit



### **SB02-09NP**



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