

## **SBA100-09Y**

**Schottky Barrier Diode (Twin Type · Cathode Common)** 

# 90V, 10A Rectifier

### **Applications**

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

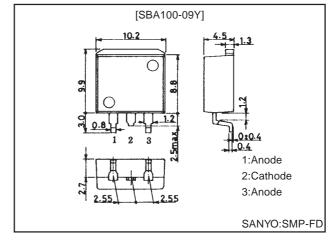
#### **Features**

- · Low forward voltage ( $V_F$  max=0.75V).
- · Fast reverse recovery time.
- · Low switching noise.
- · High reliability due to highly reliable planar structure
- · Surface mount type devices facilitating compactness and high density of SBA100-09Y-applied sets.

### **Package Dimensions**

unit:mm

1262A



### **Specifications**

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

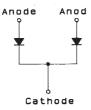
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		90	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		95	V
Average Output Current	lo	50Hz, resistive load, Tc=88°C	10	Α
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1 cycle	80	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

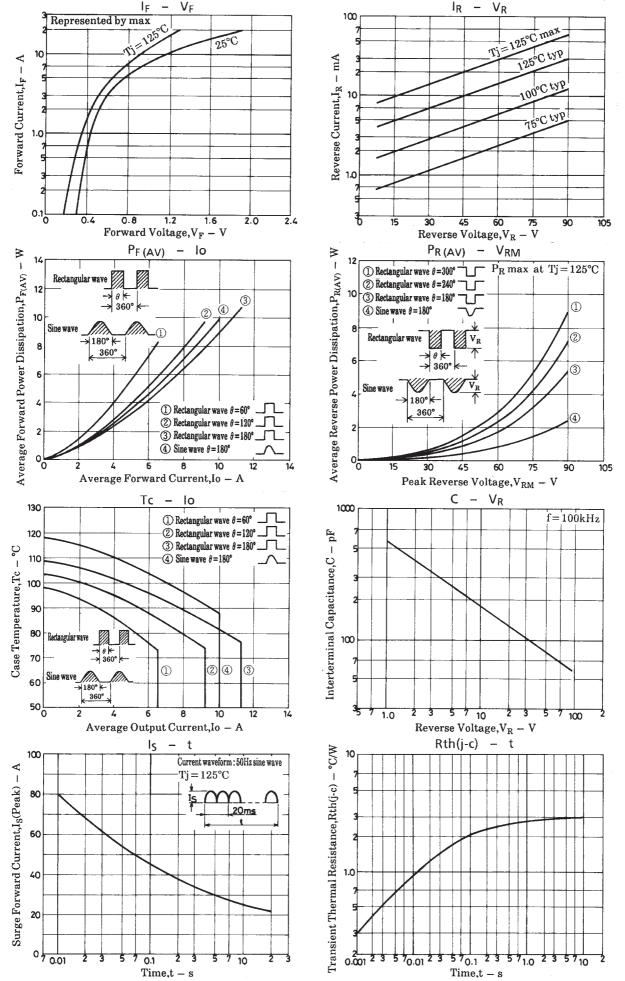
#### **Electrical Characteristics**

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =2mA, Tj=25°C, *	90			V
Forward Voltage	٧F	I <sub>F</sub> =5A, Tj=25°C, *			0.75	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =45V, Tj=25°C, *			0.2	mA
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C, *		180		pF
Thermal Resistance	Rth(j-c)	Junction-Case:Smoothed DC			3.0	°C/W

Note\*:Value per element

#### **Electrical Connection**





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