

# **SBR100-10J**

## 100V, 10A Rectifier

An ON Semiconductor Company

### **Application**

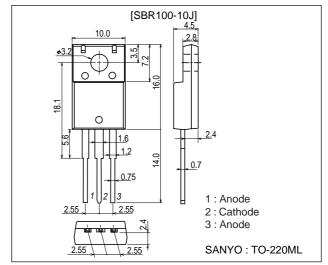
• High frequency rectification (switching regulators, converters, choppers).

#### **Features**

- · Low reverse current.
- · Low switching noise.
- · High reliability due to highly reliable planar structure.
- Attachment workability ability is good by Mica-less package.

### **Package Dimensions**

unit : mm 1320



### **Specifications**

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

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		100	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		105	V
Average Output Current	lo	50Hz resistive load, Tc=107°C	10	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	80	Α
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I <sub>R</sub> =2mA, Tj=25°C*	100			V
Forward Voltage	٧F	I <sub>F</sub> =5A, Tj=25°C*			0.85	V
Reverse Current	IR	V <sub>R</sub> =50V, Tj=25°C*			100	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C*		170		pF
Thermal Resistance (Junction-Case)	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C / W

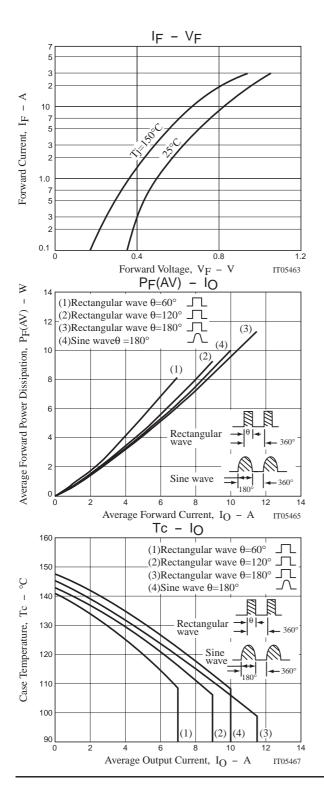
Note: \* Value per element

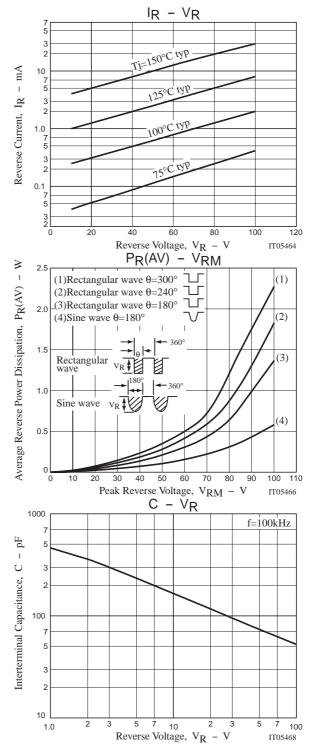
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### **Electrical Connection**

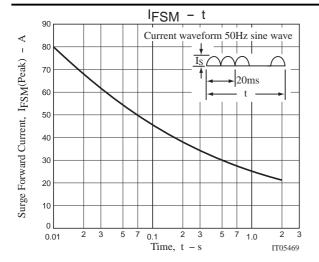


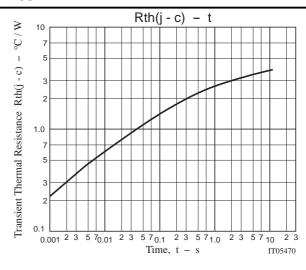
- 1 : Anode 2 : Cathode
- 2 : Cathode 3 : Anode





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