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**SANYO Semiconductors**  
**DATA SHEET**

# **SBR250-10J** — Schottky Barrier Diode (Twin Type · Cathode Common) **100V, 25A Rectifier**

## **Applications**

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

## **Features**

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

## **Specifications**

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

Parameter	Symbol	Conditions	Ratings		Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>			100	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>			105	V
Average Output Current	I <sub>O</sub>	50Hz resistive load, Sine wave T <sub>c</sub> =59°C		25	A
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1 cycle		120	A
Junction Temperature	T <sub>j</sub>			-55 to +150	°C
Storage Temperature	T <sub>stg</sub>			-55 to +150	°C

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =5mA, T <sub>j</sub> =25°C*	100			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =12.5A, T <sub>j</sub> =25°C*			0.85	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =50V, T <sub>j</sub> =25°C*			300	μA
Interterminal Capacitance	C	V <sub>R</sub> =10V, T <sub>j</sub> =25°C*		450		pF
Thermal Resistance	R <sub>th(j-c)</sub>	Junction-Case : Smoothed DC			3.0	°C / W

Note) \* : Value per element

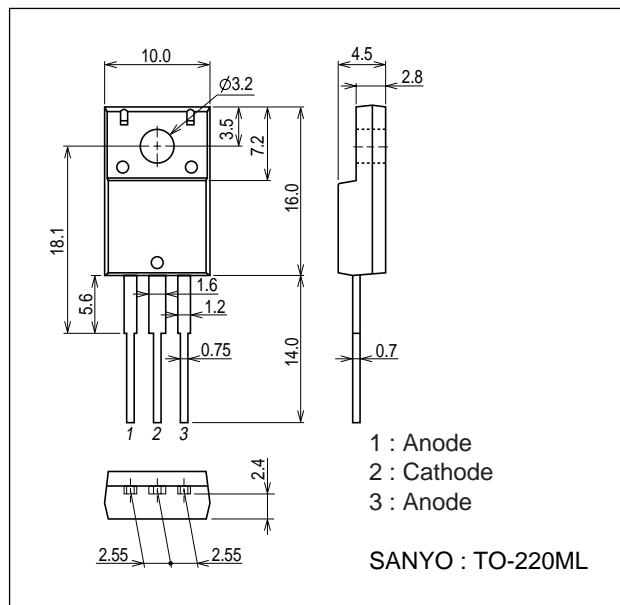
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## SBR250-10J

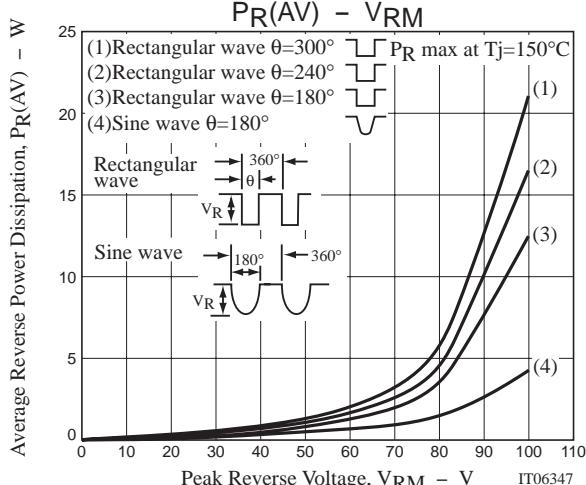
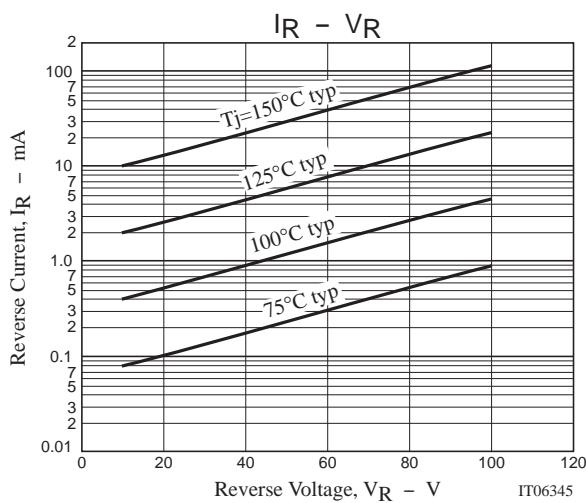
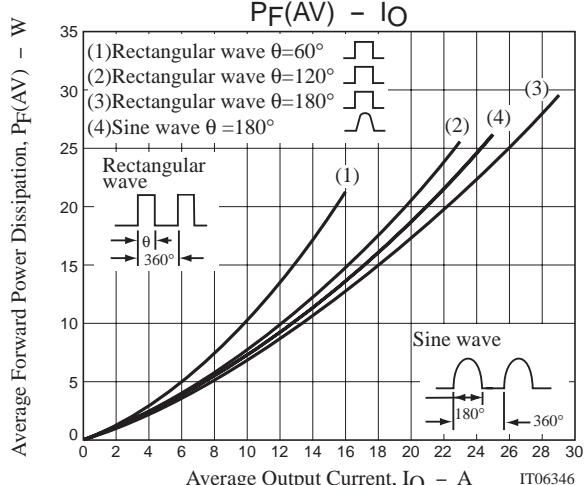
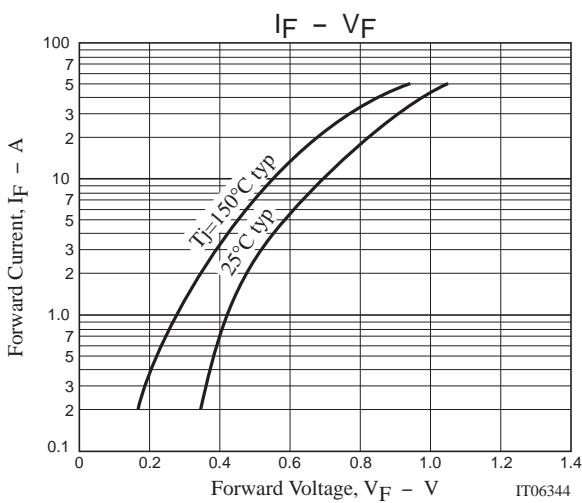
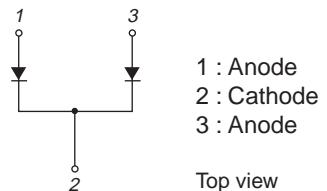
### Package Dimensions

unit : mm

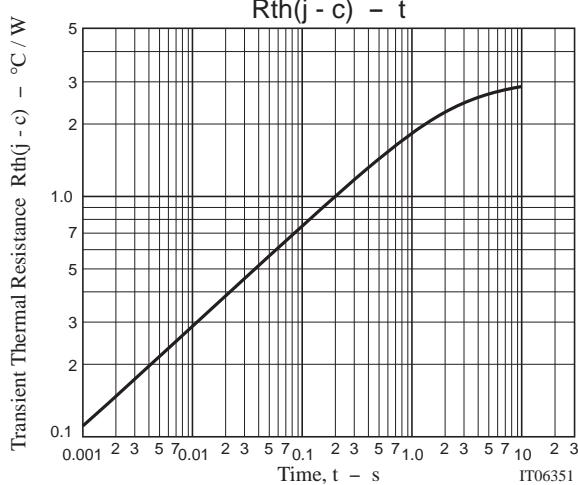
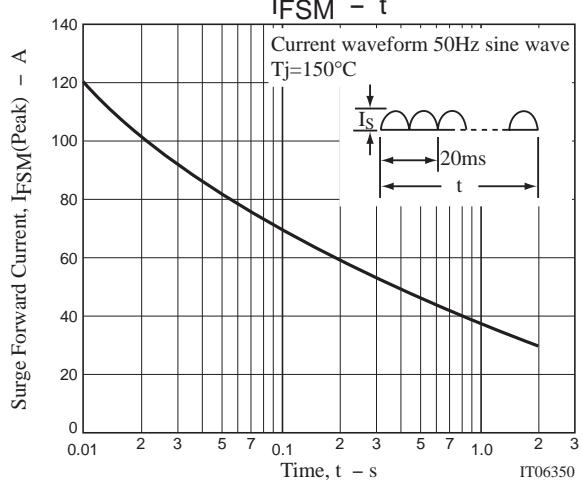
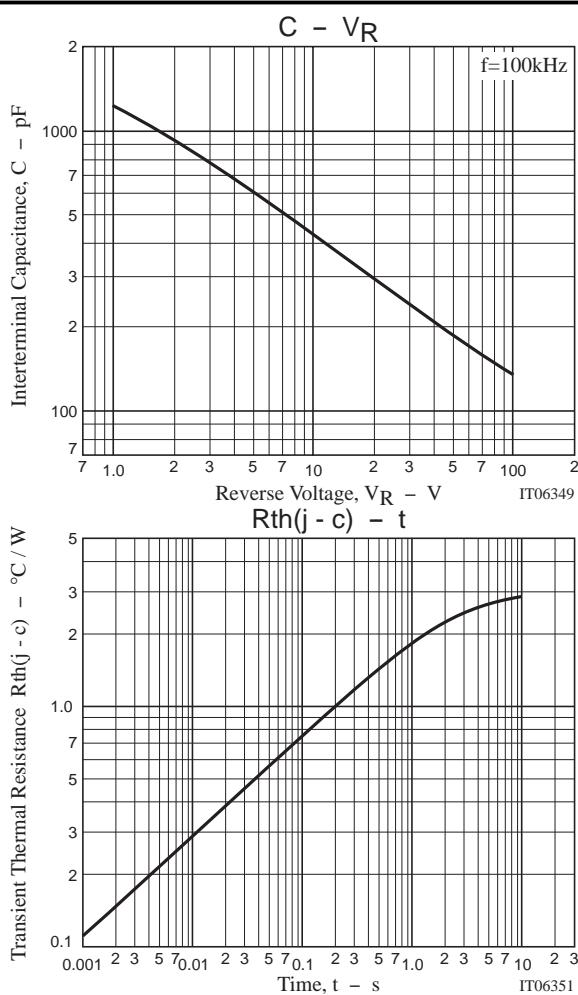
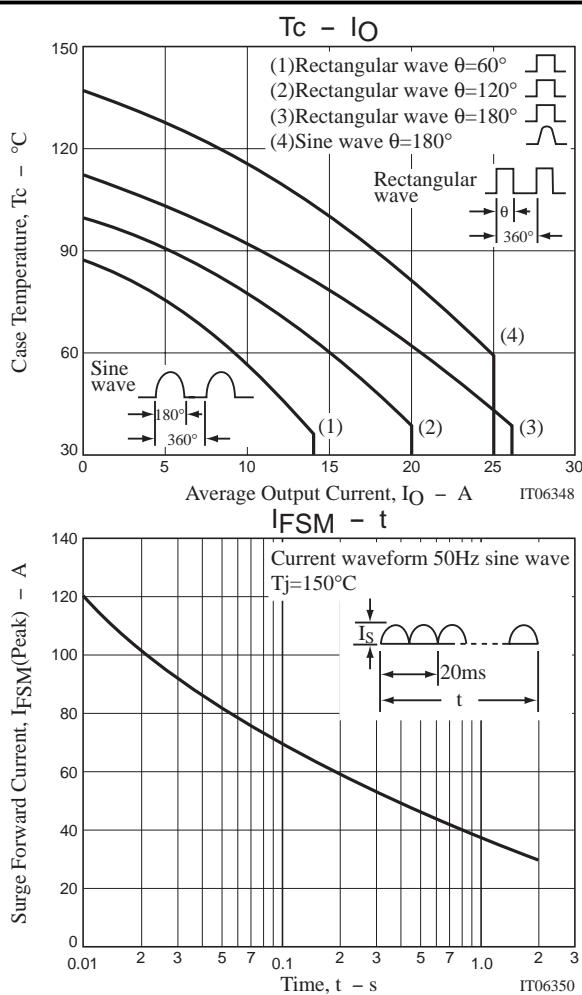
7508-001



### Electrical Connection



## SBR250-10J



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