

# 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	VRRM		100	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		105	V
Average Output Current	lo	50Hz resistive load, Sine wave Tc=59°C	25	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	120	А
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	
Reverse Voltage	VR	IR=5mA, Tj=25°C*	100			V
Forward Voltage	٧F	IF=12.5A, Tj=25°C*			0.85	V
Reverse Current	IR	V <sub>R</sub> =50V, Tj=25°C*			300	μΑ
Interterminal Capacitance	С	VR=10V, Tj=25°C*		450		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.0	°C / W

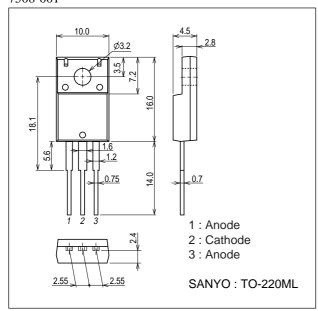
Note) \* : Value per element

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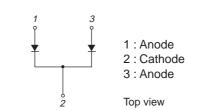
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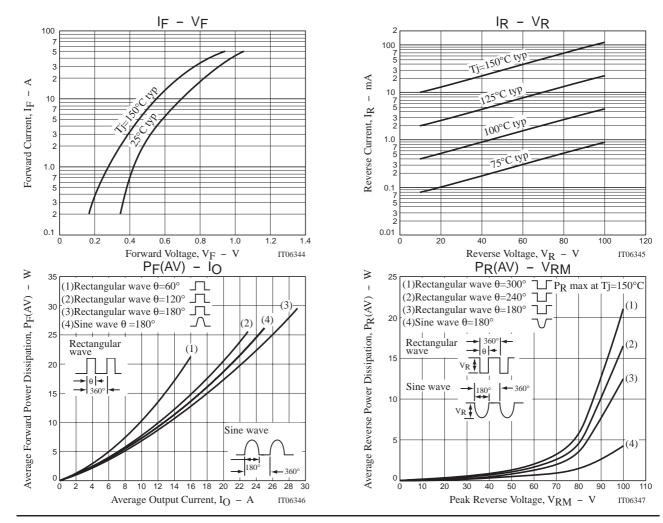
#### **Package Dimensions**

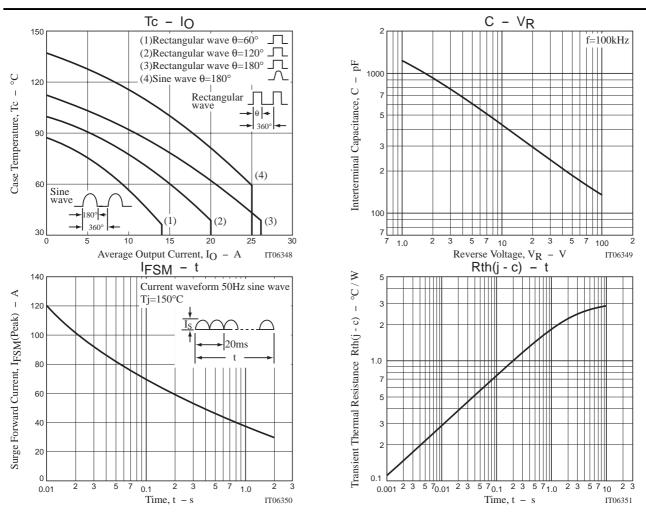
unit : mm 7508-001











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