

# SANYO Semiconductors DATA SHEET

SBT250-10JS

Schottky Barrier Diode (Twin Type • Cathode Common) 100V, 25A Rectifier

## **Applications**

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

## Features

- Guaranteed up to  $Tj=150^{\circ}C$ .
- Low forward voltage (VF max=0.80V).
- Short reverse recovery time.
- 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	V <sub>RSM</sub>		105	V
Average Output Current	IO	50Hz resistive load, sine wave Tc=42°C	25	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	100	А
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

### Electrical Characteristics at Ta=25°C

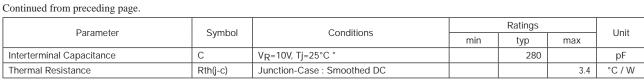
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =3mA, Tj=25°C *	100			V
Forward Voltage	VF	IF=9.5A, Tj=25°C *			0.80	V
Reverse Current	IR	V <sub>R</sub> =50V, Tj=25°C *			0.3	mA
Note) * : Volue per element						

Note) \* : Value per element

Continued on next page.

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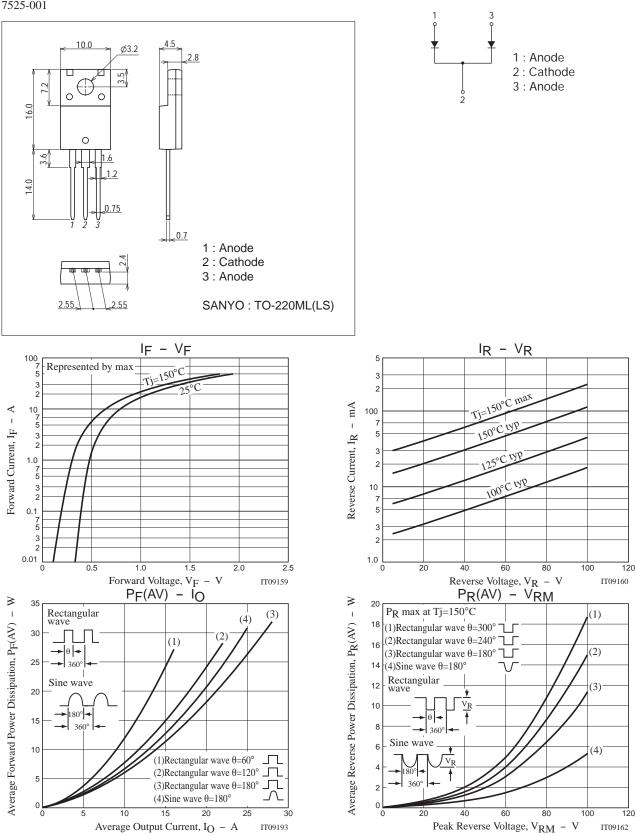


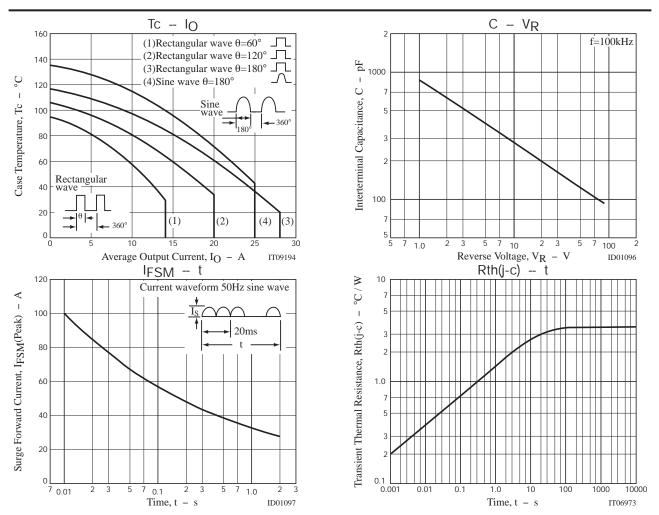
**Electrical Connection** 

Note) \* : Value per element

#### **Package Dimensions**

unit : mm (typ) 7525-001





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