

# SANYO Semiconductors DATA SHEET

## SBT250-10L — Schottky Barrier Diode (Twin Type · Cathode Common) 100V, 25A Rectifier

## **Applications**

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

#### **Features**

- Guaranteed up to Tj=150°C.
- Low forward voltage (VF max=0.80V).
- · Fast reverse recovery time.
- · Low switching noise.
- · High reliability due to highly reliable planar structure.

### **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=92°C	25	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	100	Α
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

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

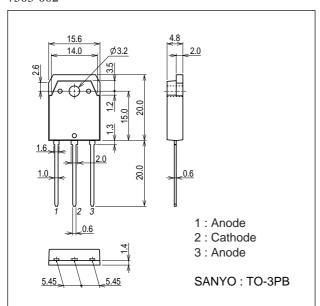
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	l Olin
Reverse Voltage	VR	IR=3mA, Tj=25°C*	100			V
Forward Voltage	VF	I <sub>F</sub> =9.5A, Tj=25°C*			0.80	V
Reverse Current	IR	V <sub>R</sub> =50V, Tj=25°C*			0.3	mA
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C*		280		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			1.6	°C / W

Note) \*: Value per element

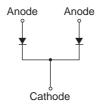
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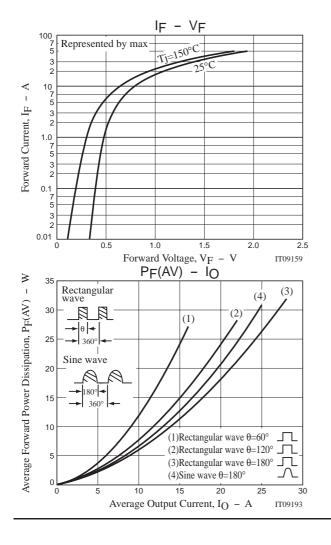
#### **Package Dimensions**

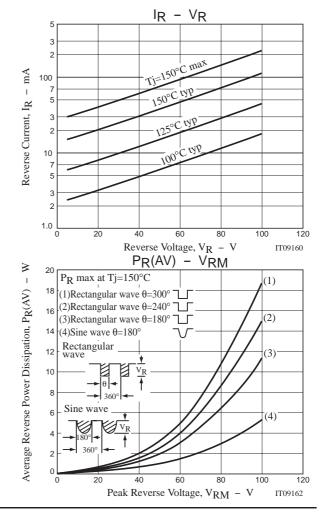
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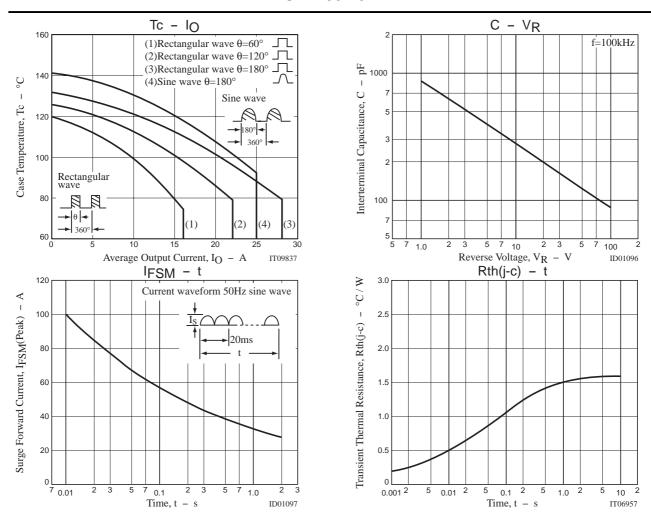
## **Electrical Connection**







#### SBT250-10L



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