

# SANYO Semiconductors DATA SHEET

SBT250-04J — Schottky Barrier Diode (Twin Type · Cathode Common) 40V, 25A Rectifier

## **Applications**

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

## **Features**

- Guaranteed up to Tj=150°C.
- Low forward voltage (VF max=0.55V).
- · 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		40	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		44	V
Average Output Current	IO	50Hz resistive load, Sine wave Tc=86°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	Offic
Reverse Voltage	VR	IR=3mA, Tj=25°C*	40			V
Forward Voltage	VF	IF=10A, Tj=25°C*			0.55	V
Reverse Current	IR	V <sub>R</sub> =20V, Tj=25°C*			0.3	mA
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C*		510		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.5	°C / W

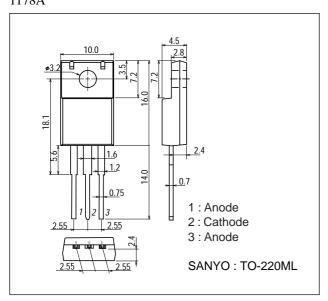
Note) \* : Value per element

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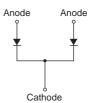
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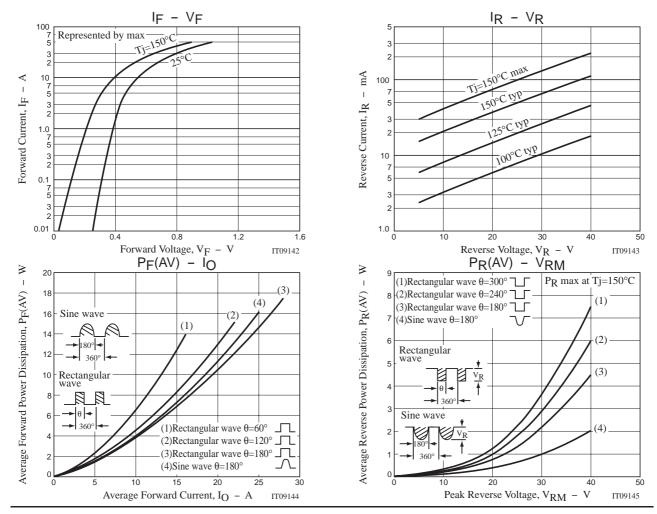
#### **Package Dimensions**

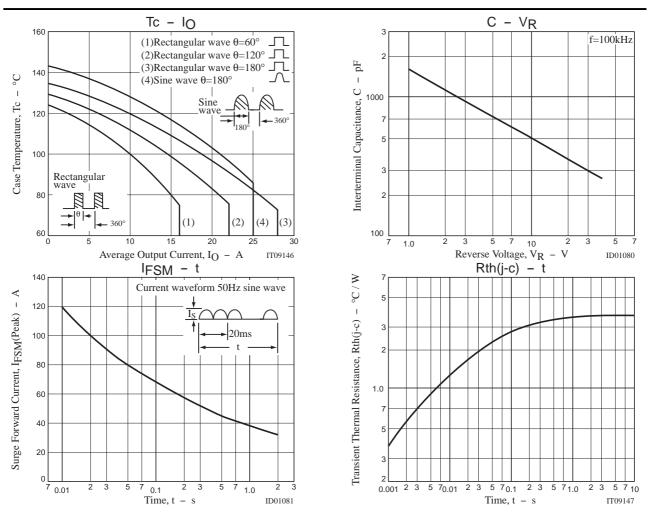
unit : mm 1178A



## **Electrical Connection**







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