

# SANYO Semiconductors DATA SHEET

# SBR160-10J — Schottky Barrier Diode (Twin Type · Cathode Common) 100V, 16A 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=92°C	16	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

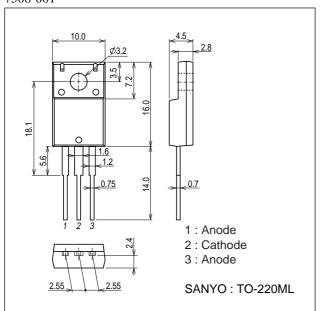
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	VR	IR=3mA, Tj=25°C*	100			V
Forward Voltage	٧F	I <sub>F</sub> =8A, Tj=25°C*			0.85	V
Reverse Current	IR	V <sub>R</sub> =50V, Tj=25°C*			200	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C*		280		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.5	°C / W

Note) \* : Value per element

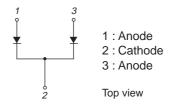
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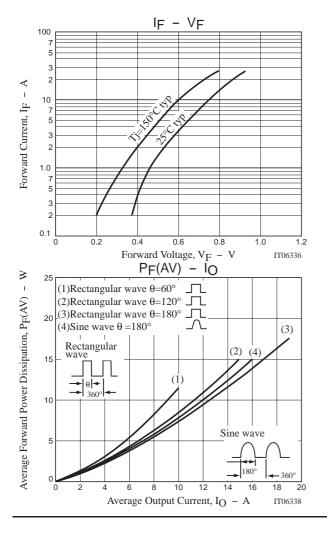
## **Package Dimensions**

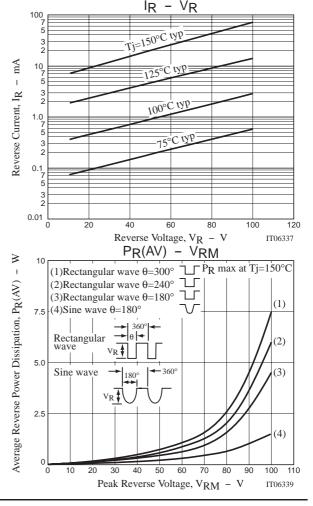
unit : mm 7508-001



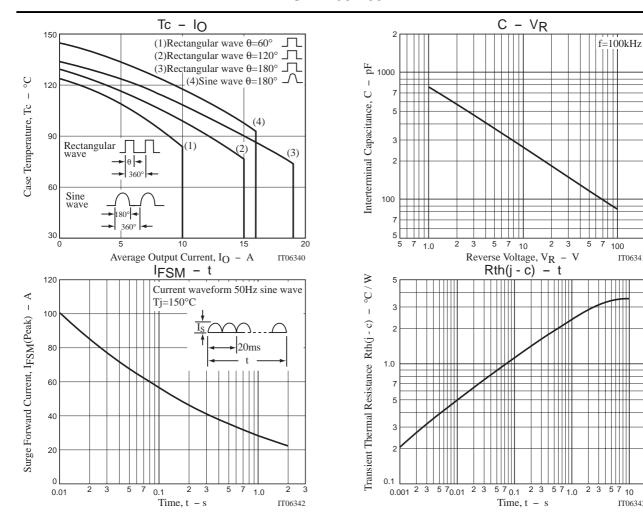
## **Electrical Connection**







### **SBR160-10J**



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