

# SANYO Semiconductors DATA SHEET

## SBR100-10JS — Schottky Barrier Diode (Twin Type · Cathode Common) 100V, 10A Rectifier

### **Applications**

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

#### **Features**

- · Low reverse current.
- · Low switching noise.
- · High reliability due to 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	IO	50Hz resistive load, Tc=107°C	10	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	80	Α
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

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

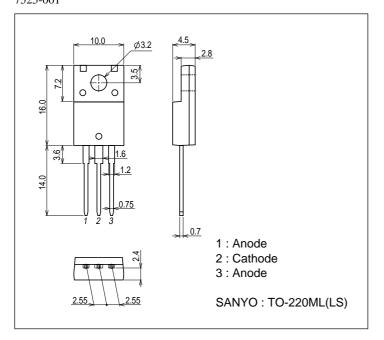
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Reverse Voltage	VR	IR=2mA, Tj=25°C*	100			V
Forward Voltage	VF	I <sub>F</sub> =5A, Tj=25°C*			0.85	٧
Reverse Current	IR	V <sub>R</sub> =50V, Tj=25°C*			100	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C*		170		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C/W

Note) \* : Value per element

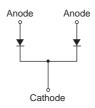
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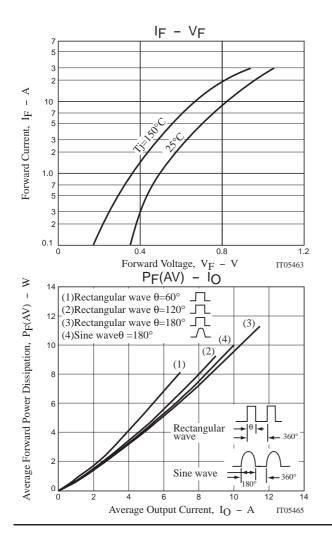
#### **Package Dimensions**

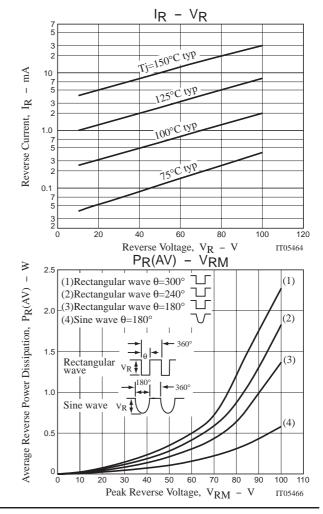
unit : mm (typ) 7525-001



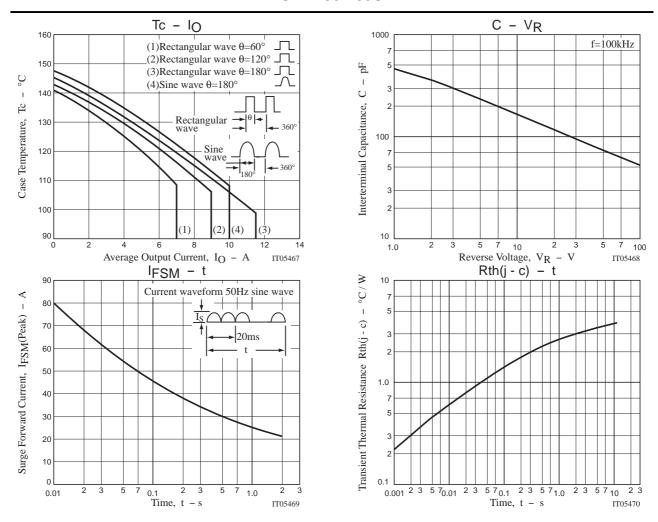
#### **Electrical Connection**







#### **SBR100-10JS**



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