

# SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

## SBT100-16JS — Schottky Barrier Diode (Twin Type · Cathode Common) 160V, 10A Rectifier

### **Applications**

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

#### **Features**

- Tj=150°C.
- Low forward voltage (VF max=0.88V).
- · 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		160	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		165	V
Average Output Current	IO	50Hz resistive load, Sine wave Tc=78°C	10	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	٧R	I <sub>R</sub> =2mA, Tj=25°C*	160			V
Forward Voltage	VF	IF=5A, Tj=25°C*		0.82	0.88	V
Reverse Current	IR	V <sub>R</sub> =160V, Tj=25°C*		20	200	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C*		100		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C/W

Note) \* : Value per element

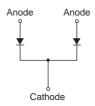
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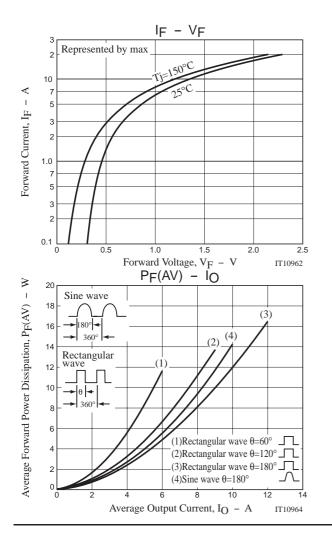
#### **Package Dimensions**

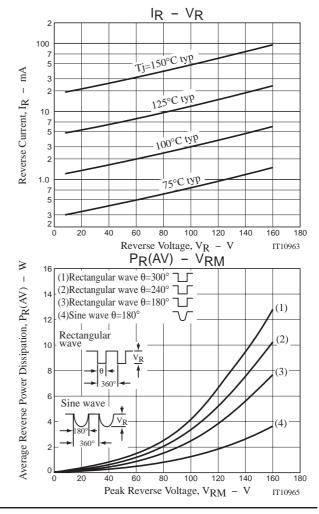
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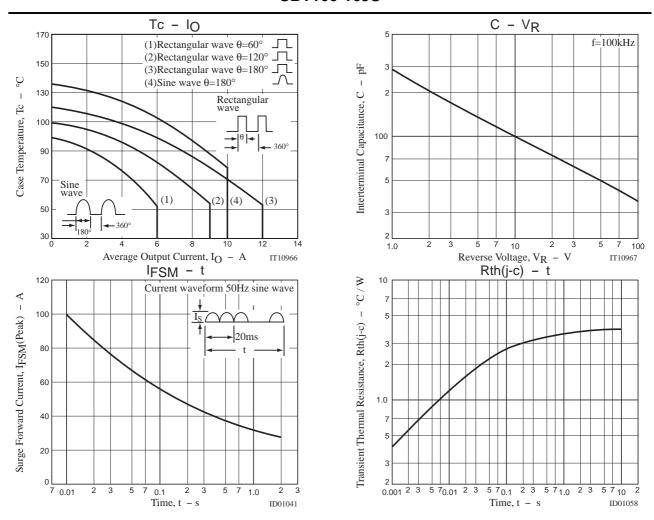
## **Electrical Connection**







#### **SBT100-16JS**



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