

# SBT100-16LS — 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	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	100	A
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	
Reverse Voltage	VR	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	150	μΑ
Interterminal Capacitance	С	VR=10V, Tj=25°C*		100		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C / W

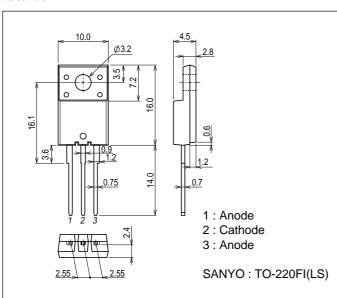
Note) \* : Value per element

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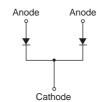
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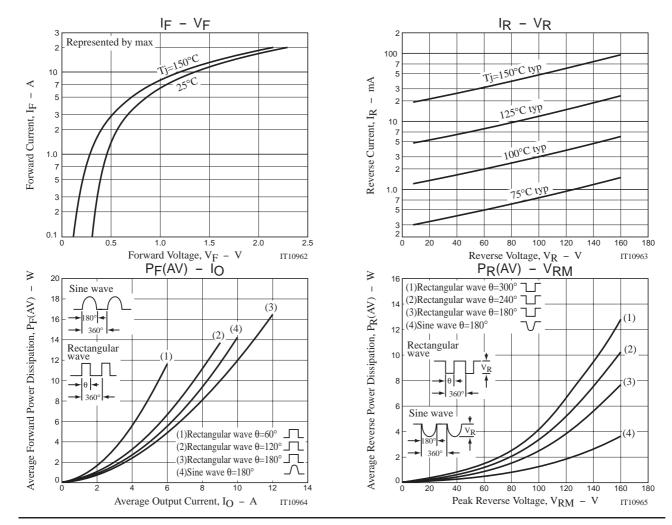
#### Package Dimensions

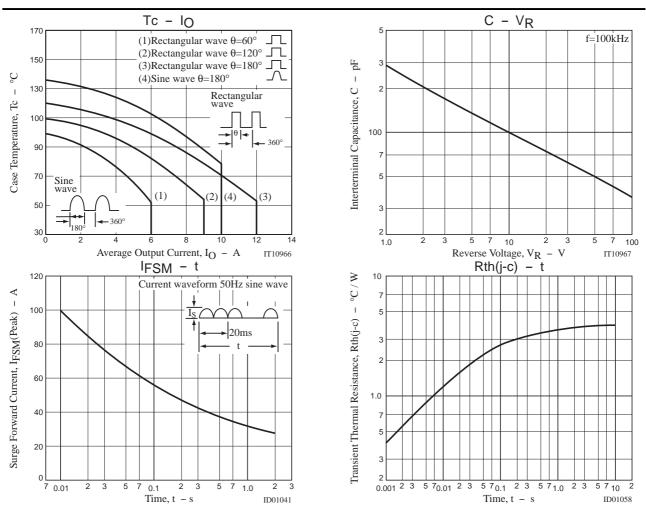
unit : mm 7509-001



### **Electrical Connection**







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