



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

- T_j=150°C.
- Low forward voltage (V_F 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	V _{RRM}		160	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		165	V
Average Output Current	I _O	50Hz resistive load, Sine wave T _c =78°C	10	A
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	100	A
Junction Temperature	T _J		-55 to +150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V _R	I _R =2mA, T _J =25°C*	160			V
Forward Voltage	V _F	I _F =5A, T _J =25°C*		0.82	0.88	V
Reverse Current	I _R	V _R =160V, T _J =25°C*		20	200	μA
Interterminal Capacitance	C	V _R =10V, T _J =25°C*		100		pF
Thermal Resistance	R _{th(j-c)}	Junction-Case : Smoothed DC			4.0	°C / W

(Note) * : Value per element

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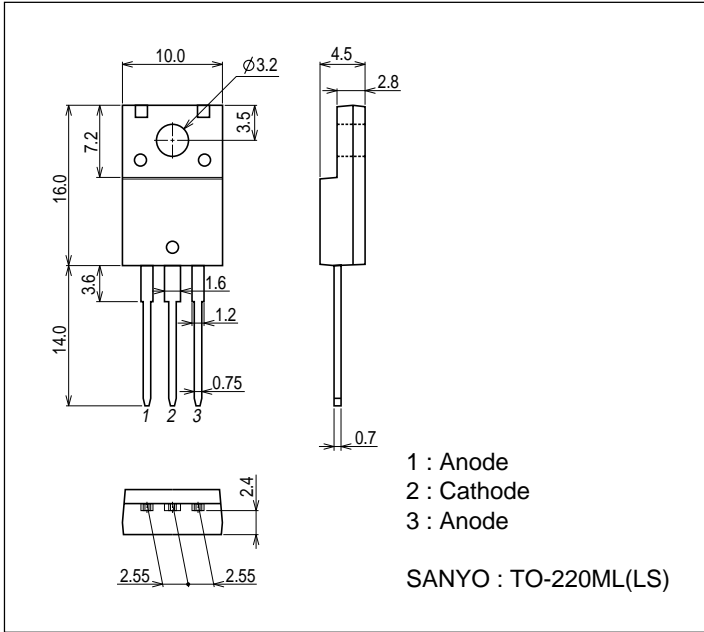
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SBT100-16JS

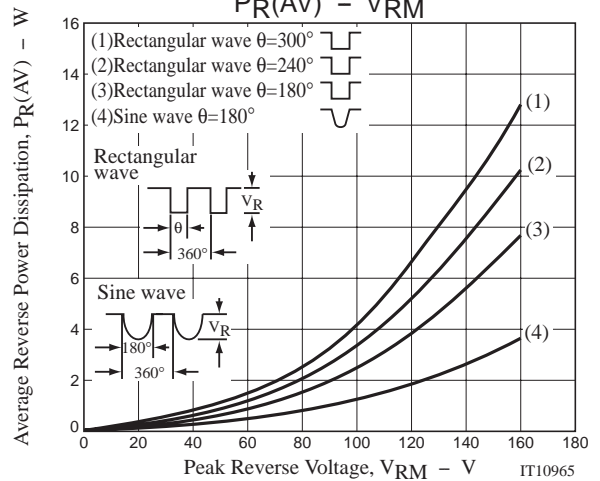
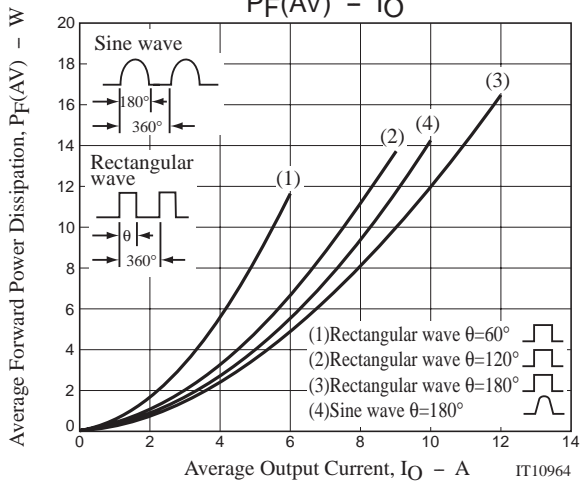
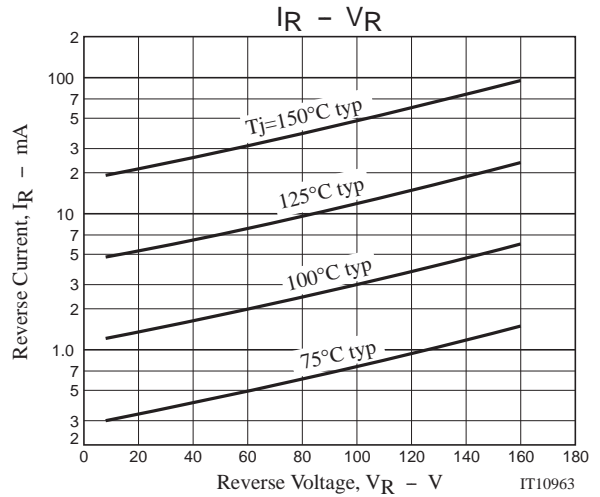
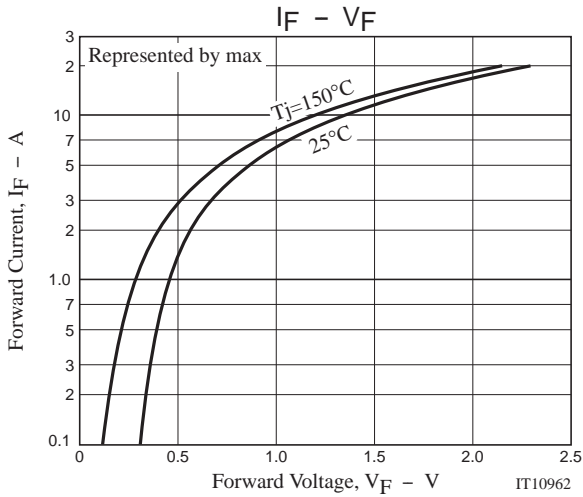
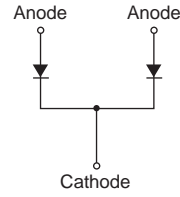
Package Dimensions

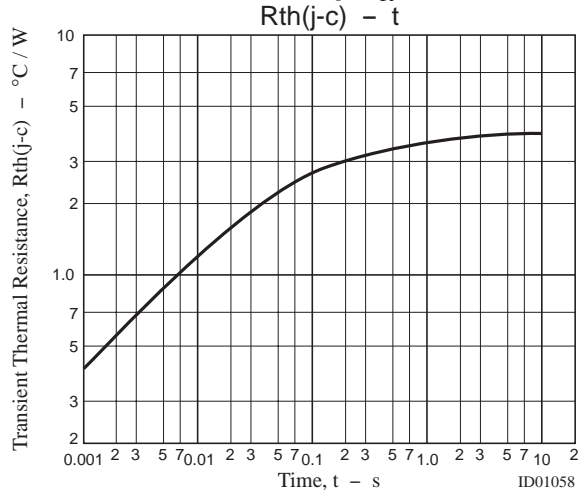
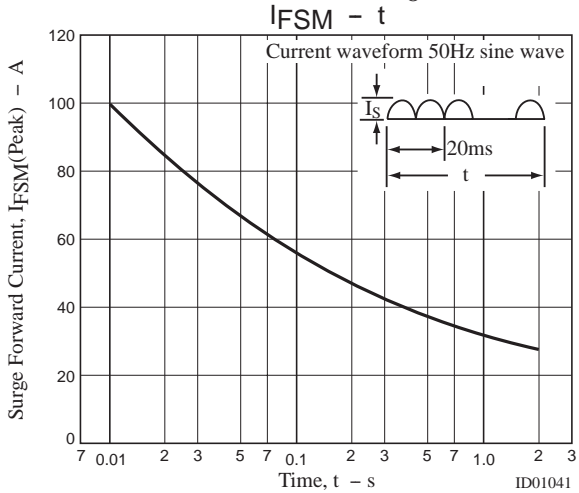
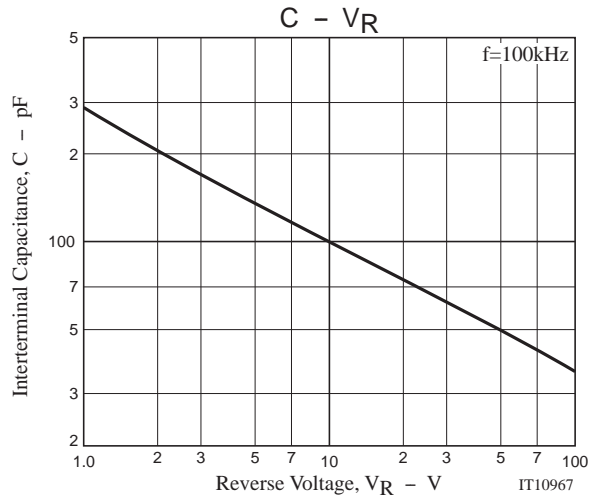
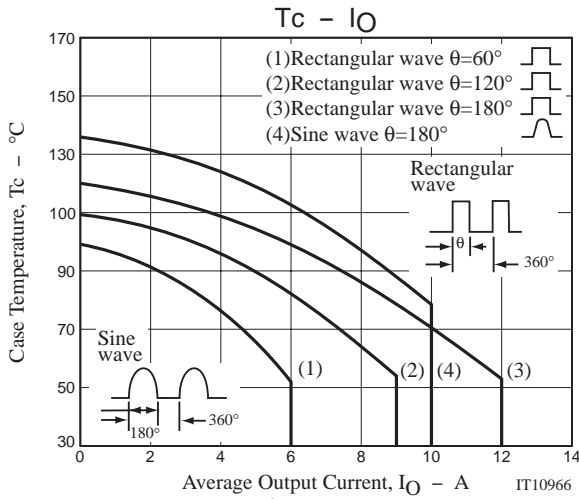
unit : mm

7525-001



Electrical Connection





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