

SANYO Semiconductors DATA SHEET

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

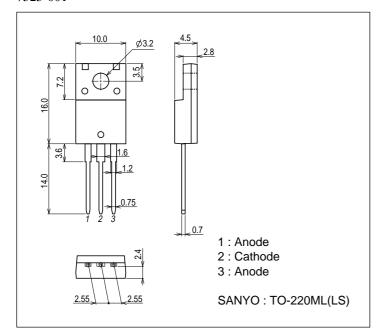
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	I _R =2mA, Tj=25°C*	160			V
Forward Voltage	VF	IF=5A, Tj=25°C*		0.82	0.88	V
Reverse Current	IR	V _R =160V, Tj=25°C*		20	200	μΑ
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		100		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C / W

Note) * : Value per element

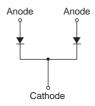
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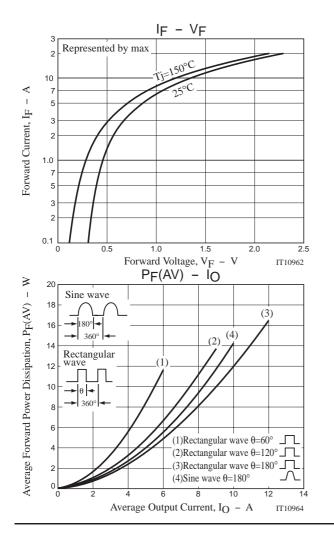
Package Dimensions

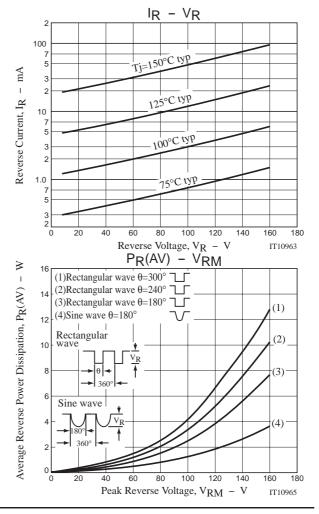
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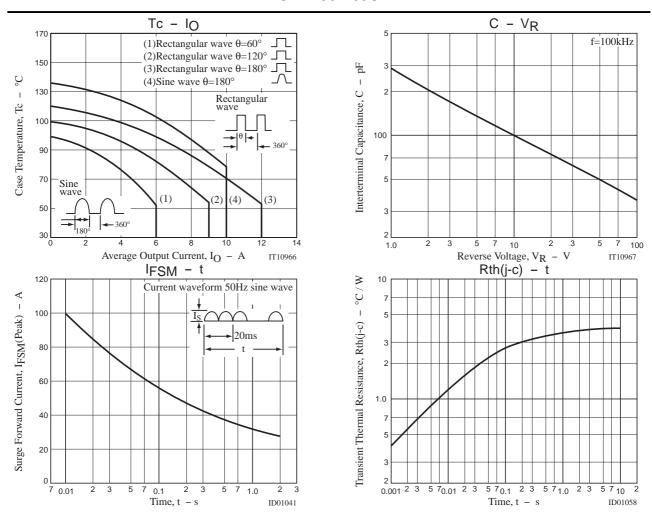
Electrical Connection







SBT100-16JS



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