

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

SBT150-10LS — Schottky Barrier Diode (Twin Type · Cathode Common) 100V, 15A Rectifier

Applications

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

Features

- Tj=150°C.
- Low forward voltage (VF max=0.80V).
- · Short reverse recovery time.
- · Low switching noise.
- · High reliability due to highly reliable planar structure.
- · Micaless package facilitating mounting.

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	lo	50Hz resistive load, Sine wave Tc=43°C	15	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	80	А
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

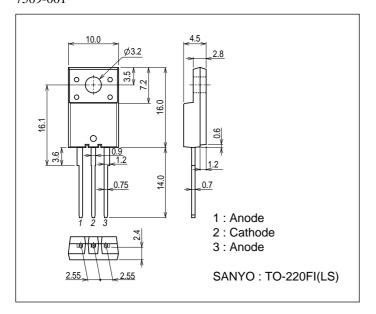
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I _R =2mA, Tj=25°C*	100			V
Forward Voltage	VF	IF=6A, Tj=25°C*			0.80	V
Reverse Current	IR	V _R =50V, Tj=25°C*			0.2	mA
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		180		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C/W

Note) * : Value per element

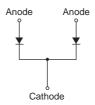
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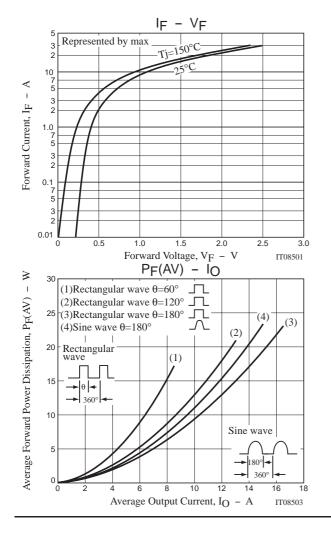
Package Dimensions

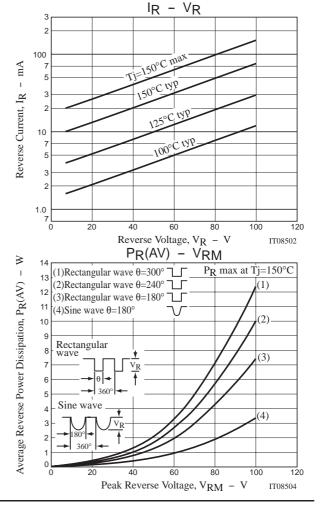
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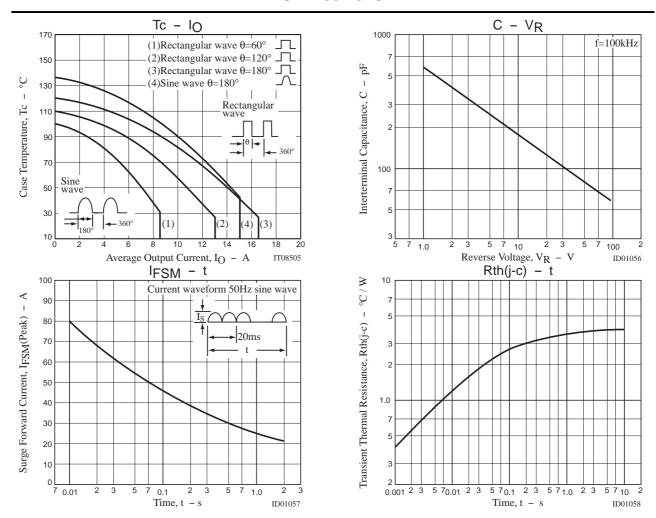
Electrical Connection







SBT150-10LS



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