

SANYO Semiconductors DATA SHEET

SBT80-10JS — Schottky Barrier Diode (Twin Type · Cathode Common) 100V, 8A 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=81°C	8	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	60	А
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

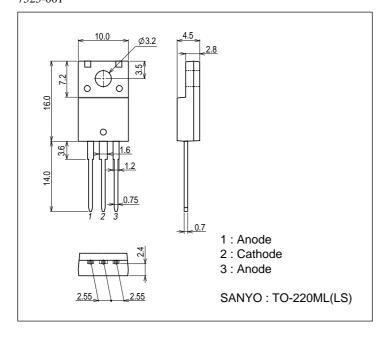
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I _R =1mA, Tj=25°C*	100			V
Forward Voltage	VF	IF=3.0A, Tj=25°C*			0.80	V
Reverse Current	IR	V _R =50V, Tj=25°C*			0.1	mA
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		90		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			5.0	°C / W

Note) * : Value per element

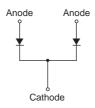
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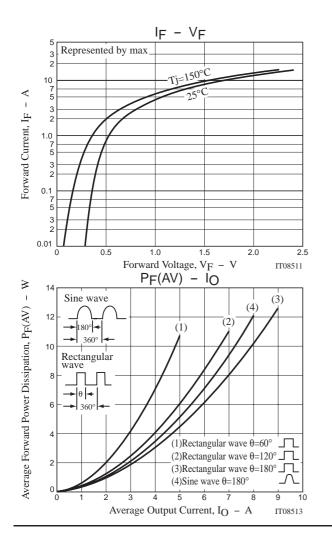
Package Dimensions

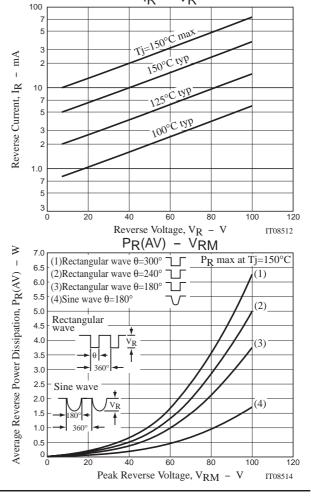
unit : mm (typ) 7525-001



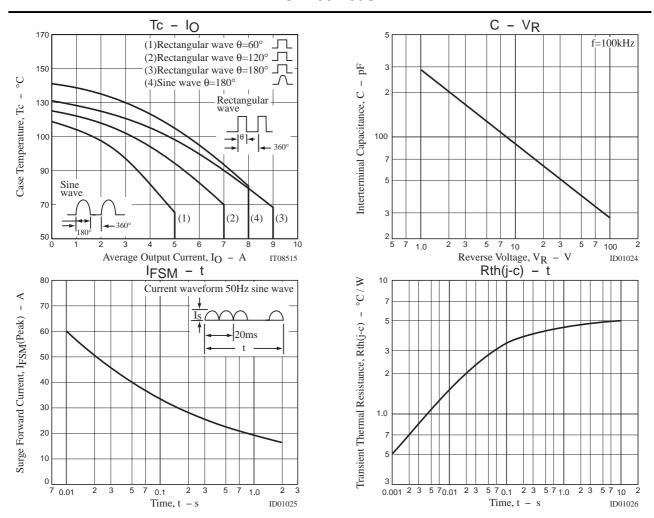
Electrical Connection







SBT80-10JS



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