

SANYO Semiconductors DATA SHEET

SBT80-10Y Schottky Barrier Diode (Twin Type · Cathode Common) 100V, 8A Rectifier

Applications

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

Features

- Guaranteed up to Tj=150°C.
- Low forward voltage (VF max=0.80V).
- Fast reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.
- Surface mount type device reducing the assembling time and facilitating compact and high-density assembly of SBT80-10Y-applied equipment.

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	IO	50Hz resistive load, Sine wave Tc=95°C	8	А
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	
Reverse Voltage	VR	IR=1mA, Tj=25°C*	100			V
Forward Voltage	VF	IF=3A, Tj=25°C*			0.8	V
Reverse Current	IR	V _R =50V, Tj=25°C*			0.1	mA
Interterminal Capacitance	С	VR=10V, Tj=25°C*		90		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C / W

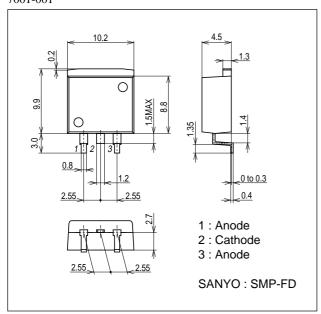
Note) * : Value per element

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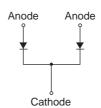
SANYO Electric Co.,Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

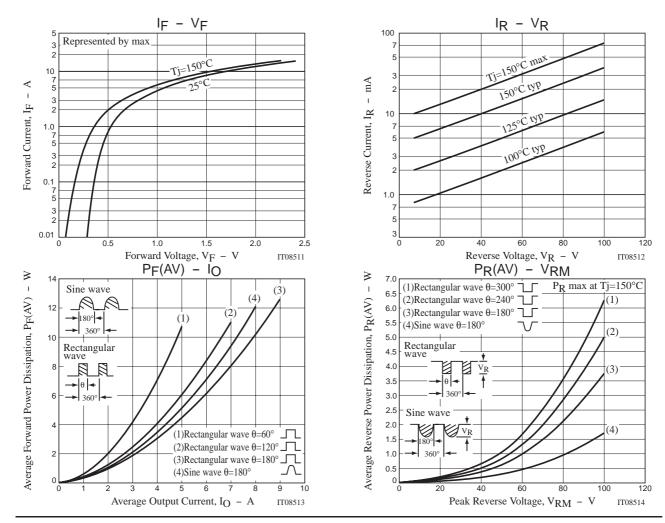
Package Dimensions

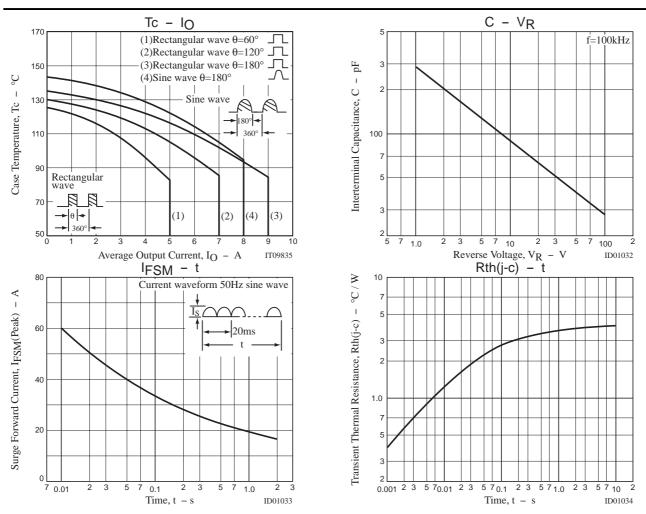




Electrical Connection







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