

SANYO Semiconductors DATA SHEET

SBT700-06RH — Schottky Barrier Diode (Twin Type • Cathode Common) 60V, 70A Rectifier

Applications

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

Features

- Guaranteed up to Tj=150°C.
- Low forward voltage (VF max=0.66V).
- · Fast reverse recovery time.
- · Low switching noise.
- · High reliability due to highly reliable planar structure.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		60	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		66	V
Average Output Current	IO	50Hz resistive load, Sine wave Tc=44°C	70	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	200	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Linit
	Symbol		min	typ	max	Unit
Reverse Voltage	V _R	I _R =10mA, Tj=25°C *	60			V
Forward Voltage	VF	I _F =30A, Tj=25°C *			0.66	V
Reverse Current	I _R	V _R =30V, Tj=25°C *			1	mA

Note) * : Value per element

Continued on next page.

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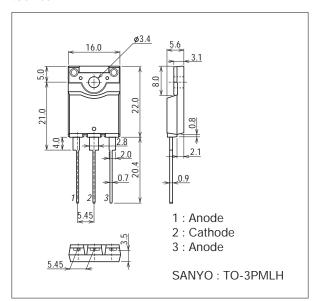
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Uill
Interterminal Capacitance	С	V _R =10V, Tj=25°C *		1400		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			1.5	°C / W

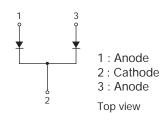
Note) * : Value per element

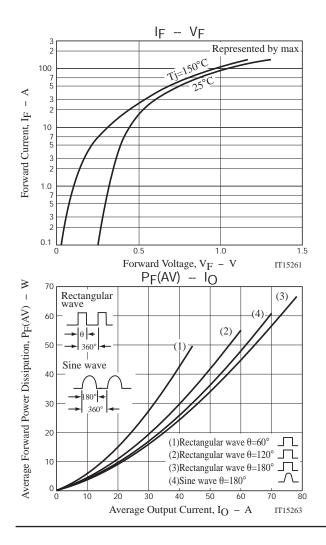
Package Dimensions

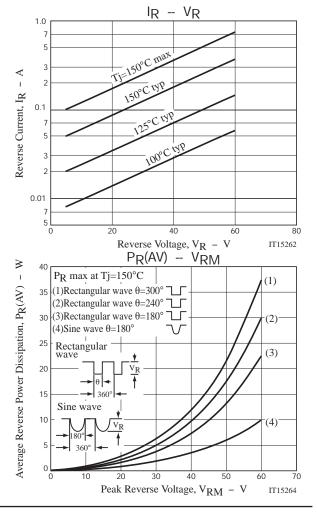
unit : mm (typ) 7504-002

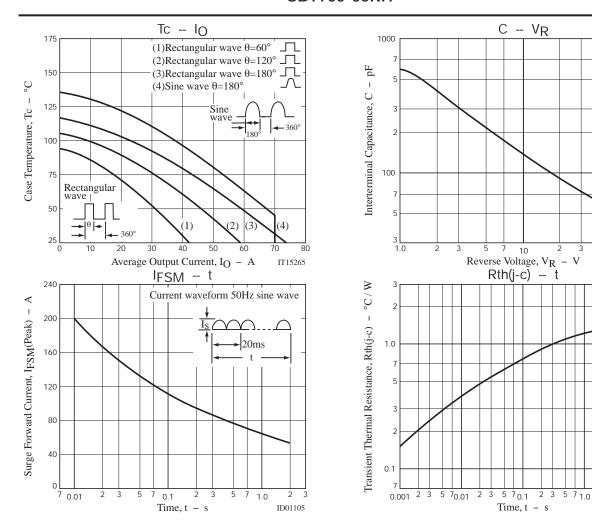


Electrical Connection









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f=100kHz

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