



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 $T_j=150^{\circ}\text{C}$.
- Low forward voltage ($V_F \text{ max}=0.66\text{V}$).
- Fast reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.

Specifications

Absolute Maximum Ratings at $T_a=25^{\circ}\text{C}$

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	I_O	50Hz resistive load, Sine wave $T_c=44^{\circ}\text{C}$	70	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	200	A
Junction Temperature	T_j		150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics at $T_a=25^{\circ}\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=10\text{mA}$, $T_j=25^{\circ}\text{C}$ *	60			V
Forward Voltage	V_F	$I_F=30\text{A}$, $T_j=25^{\circ}\text{C}$ *			0.66	V
Reverse Current	I_R	$V_R=30\text{V}$, $T_j=25^{\circ}\text{C}$ *			1	mA

Note) *: Value per element

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SBT700-06RH

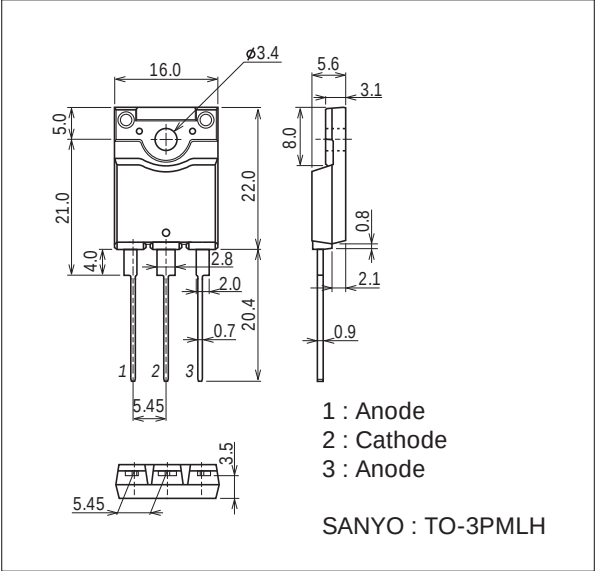
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Interterminal Capacitance	C	$V_R=10V, T_j=25^{\circ}C$ *		1400		pF
Thermal Resistance	$R_{th(j-c)}$	Junction-Case : Smoothed DC			1.5	$^{\circ}C / W$

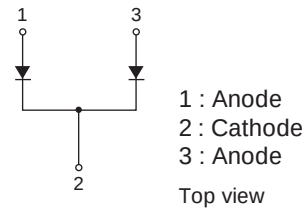
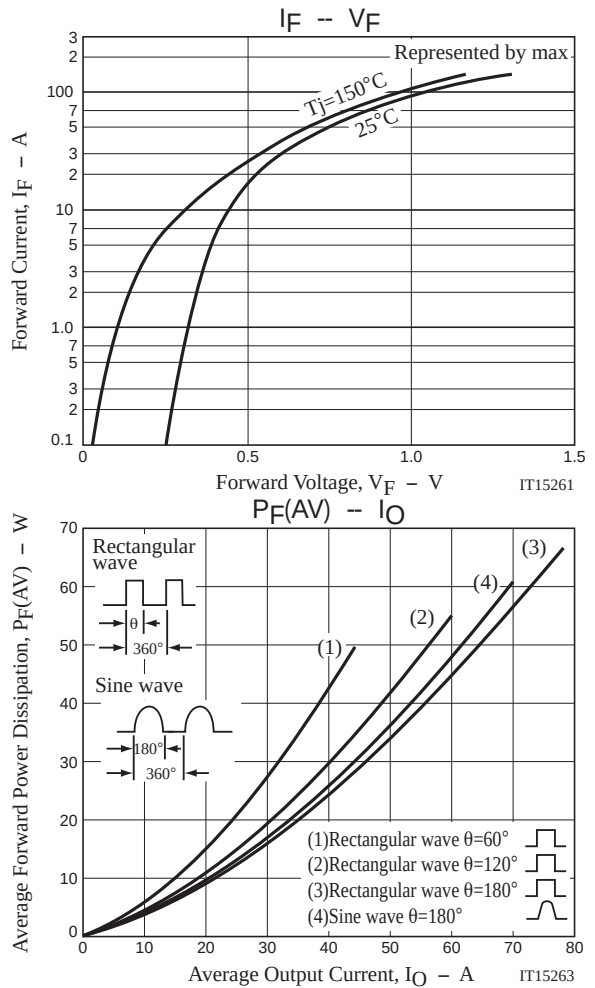
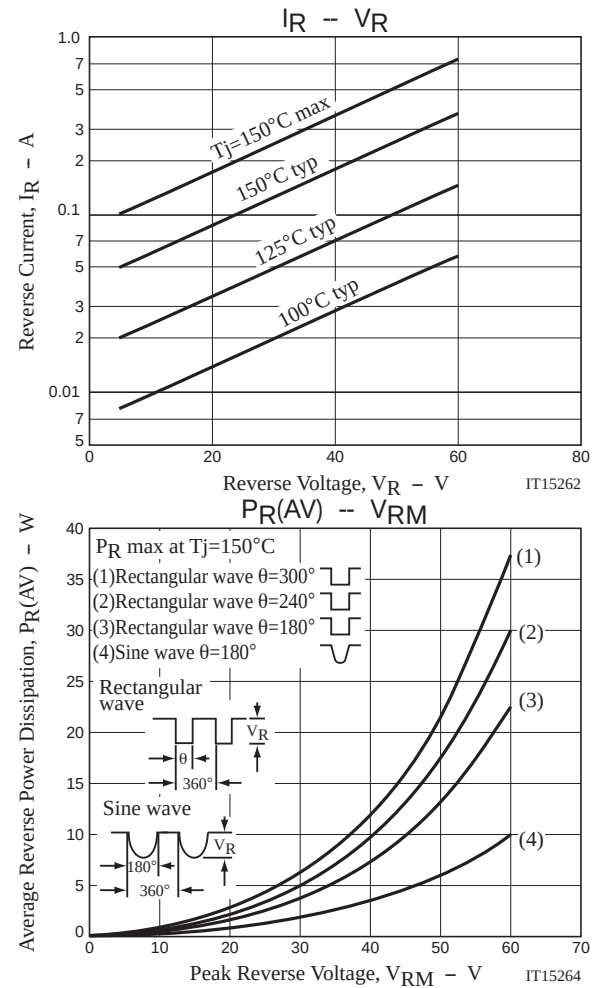
Note) *: Value per element

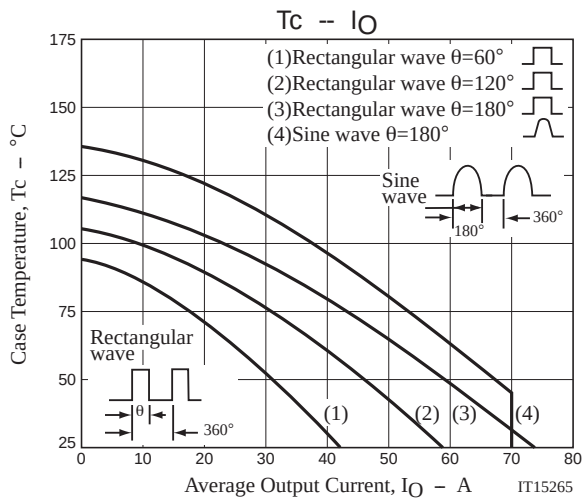
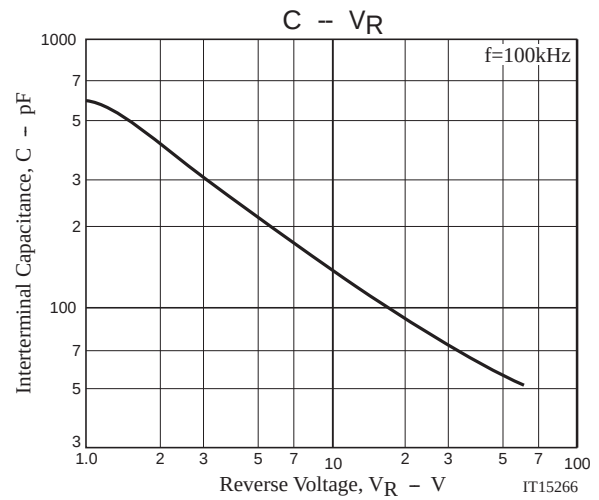
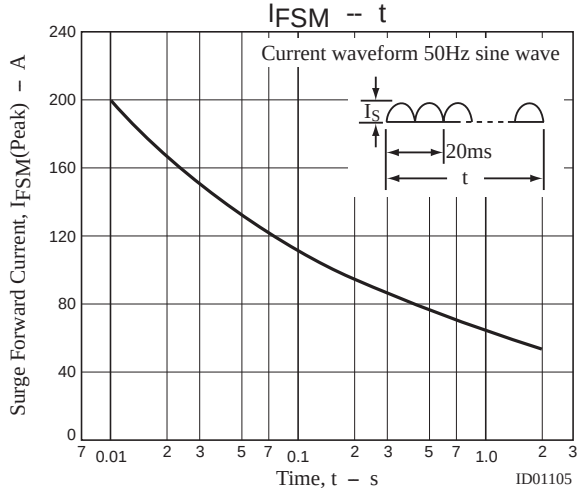
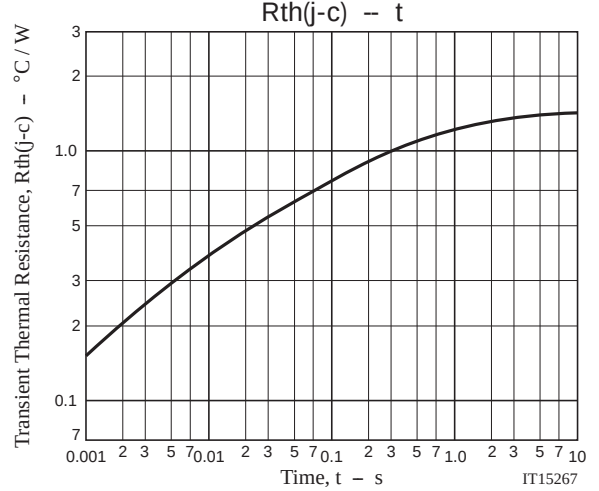
Package Dimensions

unit : mm (typ)
7504-002



Electrical Connection





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