



SANYO Semiconductors

DATA SHEET

SBT150-06J

Schottky Barrier Diode (Twin Type · Cathode Common)
60V, 15A Rectifier

Applications

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

Features

- $T_j=150^\circ\text{C}$.
- Low forward voltage (V_F max=0.58V).
- Fast reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.
- Micaless package facilitating easy mounting.

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 $T_c=90^\circ\text{C}$		15	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle		100	A
Junction Temperature	T_j		-55 to +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	$I_R=2\text{mA}, T_j=25^\circ\text{C}^*$	60			V
Forward Voltage	V_F	$I_F=6\text{A}, T_j=25^\circ\text{C}^*$			0.58	V
Reverse Current	I_R	$V_R=30\text{V}, T_j=25^\circ\text{C}^*$			0.2	mA
Interterminal Capacitance	C	$V_R=10\text{V}, T_j=25^\circ\text{C}^*$		270		pF
Thermal Resistance	$R_{th(j-c)}$	Junction-Case : Smoothed DC			4.0	$^\circ\text{C} / \text{W}$

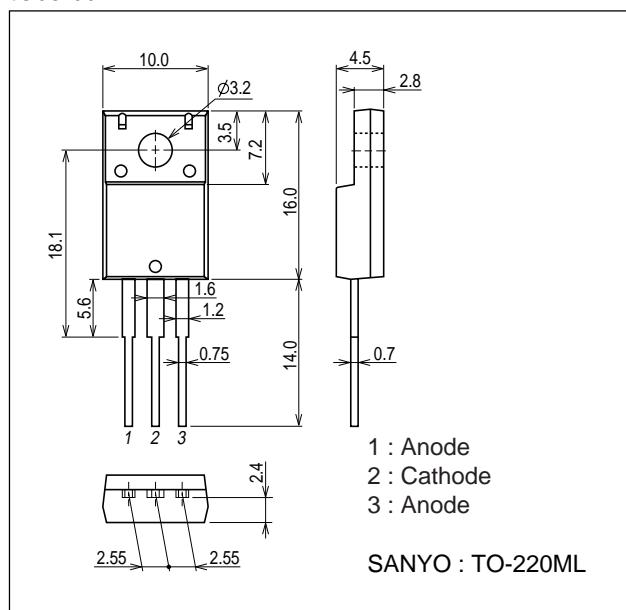
Note) * : Value per element

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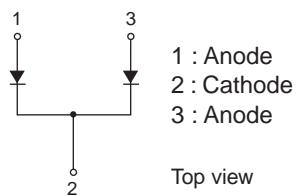
Package Dimensions

unit : mm

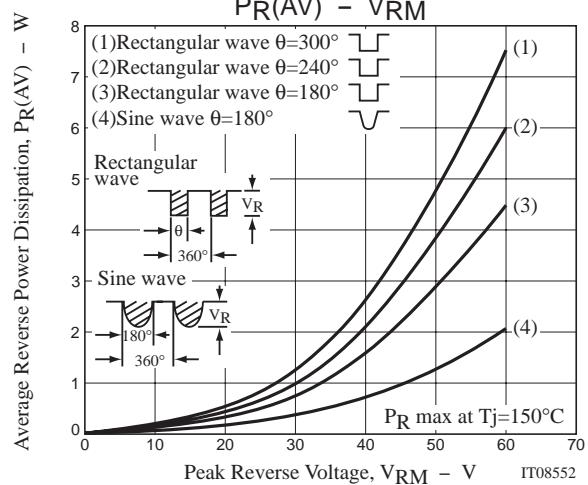
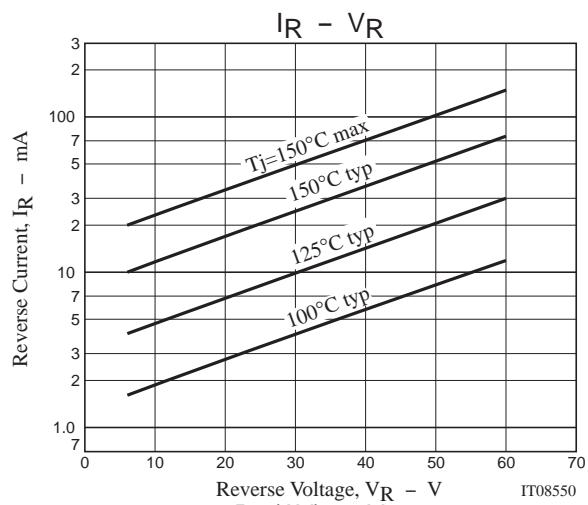
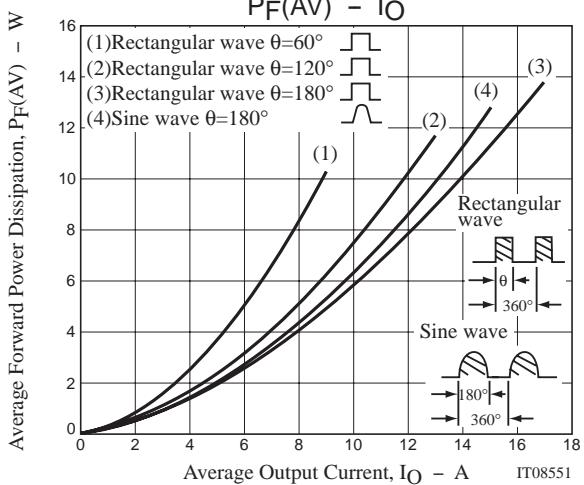
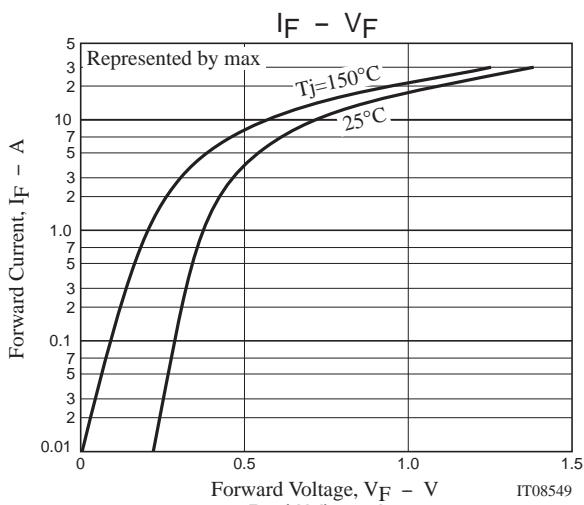
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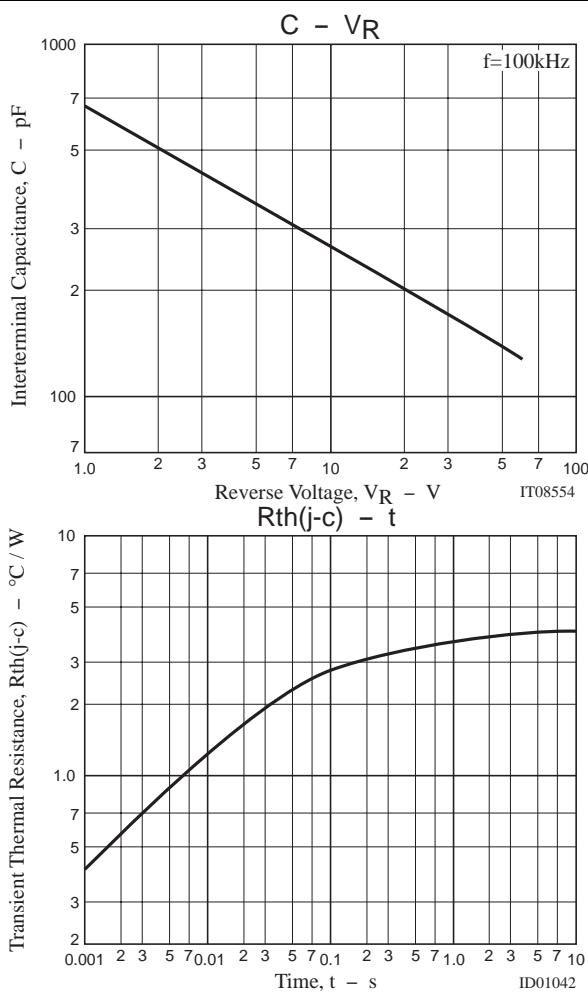
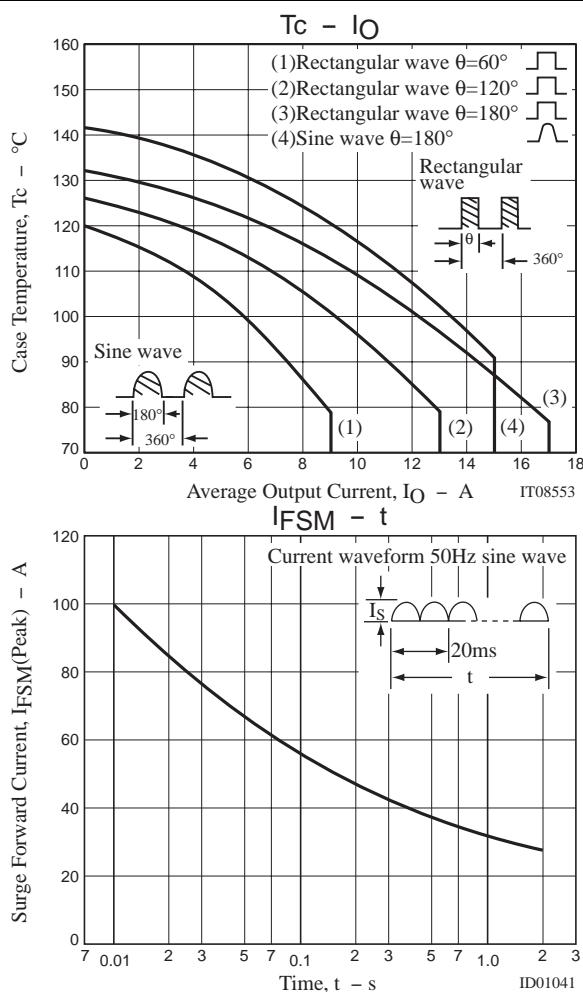


Electrical Connection



Top view





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