



# SANYO Semiconductors

## DATA SHEET

# SBT80-06LS

Schottky Barrier Diode (Twin Type · Cathode Common)  
60V, 8A Rectifier

### Applications

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

### Features

- Guaranteed up to  $T_j=150^\circ\text{C}$ .
- Low forward voltage ( $V_F$  max=0.58V).
- Short reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.
- Attachment workability is good by Mica-less package.

### Specifications

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

Parameter	Symbol	Conditions	Ratings		Unit
Repetitive Peak Reverse Voltage	VR <sub>RM</sub>			60	V
Nonrepetitive Peak Reverse Surge Voltage	VR <sub>SM</sub>			66	V
Average Output Current	I <sub>O</sub>	50Hz resistive load, Sine wave $T_c=109^\circ\text{C}$		8	A
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1 cycle		80	A
Junction Temperature	T <sub>J</sub>			-55 to +150	°C
Storage Temperature	T <sub>Stg</sub>			-55 to +150	°C

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V <sub>R</sub>	$I_R=1\text{mA}, T_j=25^\circ\text{C}^*$	60			V
Forward Voltage	V <sub>F</sub>	$I_F=3.0\text{A}, T_j=25^\circ\text{C}^*$			0.58	V
Reverse Current	I <sub>R</sub>	$V_R=30\text{V}, T_j=25^\circ\text{C}^*$			0.1	mA
Interterminal Capacitance	C	$V_R=10\text{V}, T_j=25^\circ\text{C}^*$		130		pF
Thermal Resistance	R <sub>th(j-c)</sub>	Junction-Case : Smoothed DC			5.0	°C / W

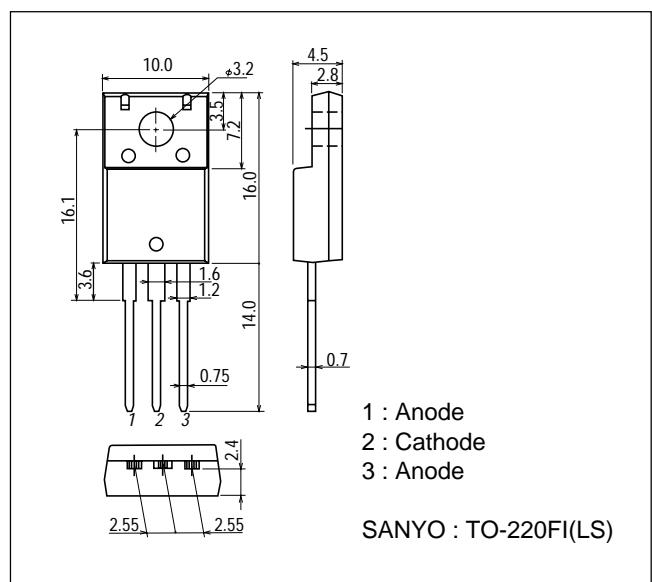
Note) \* : Value per element

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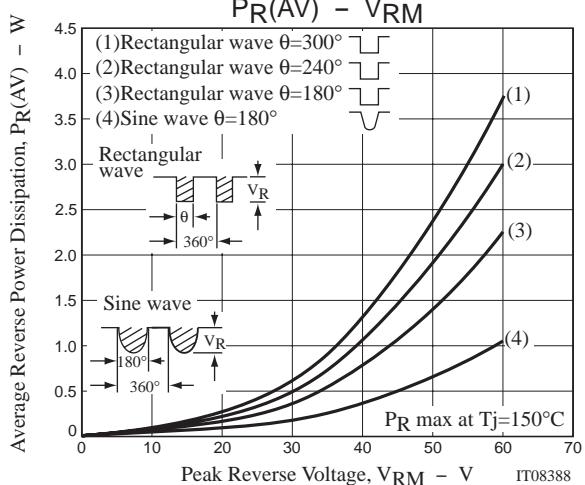
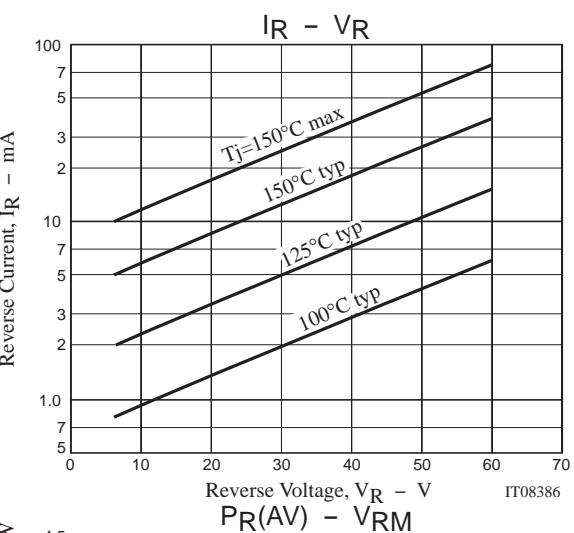
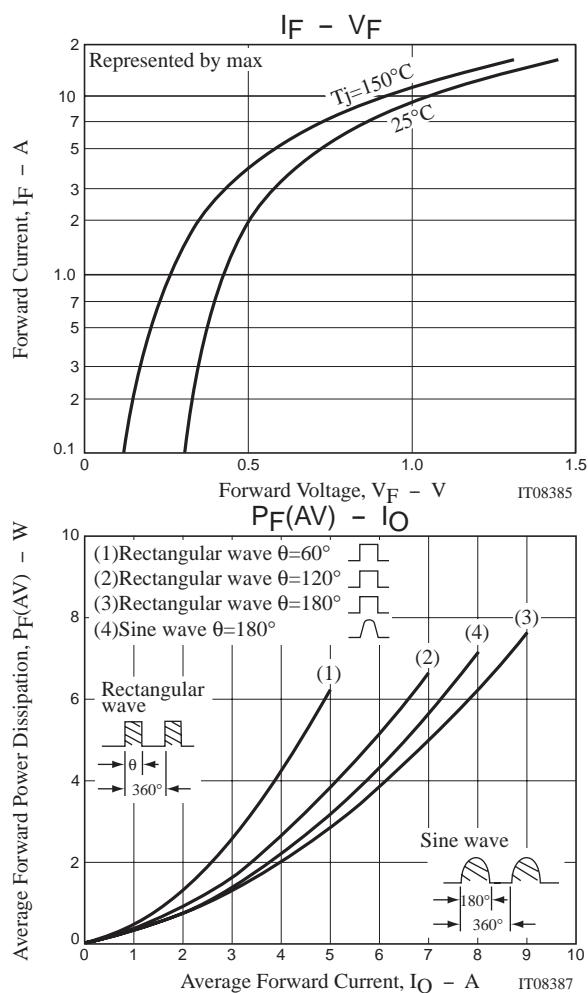
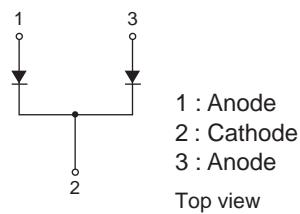
## Package Dimensions

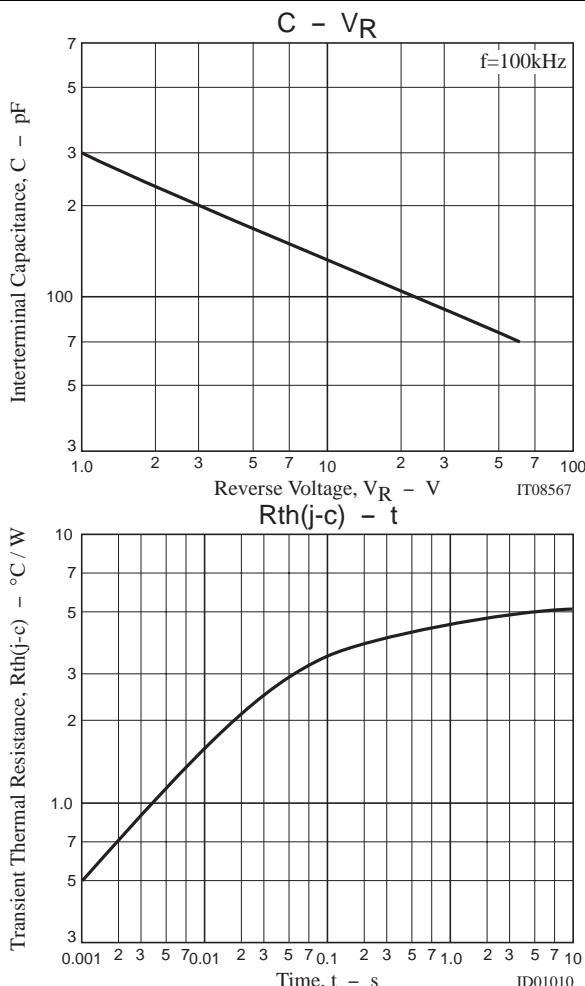
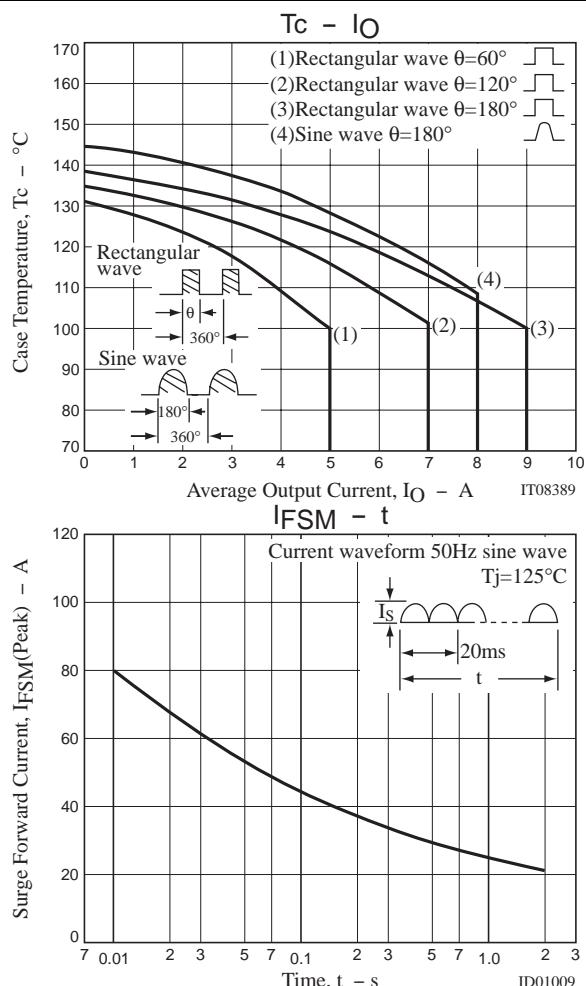
unit : mm

1334



## Electrical Connection





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