

**SANYO****SB100-18**

Schottky Barrier Diode (Twin Type · Cathode Common)

**180V, 10A Rectifier****Applications**

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

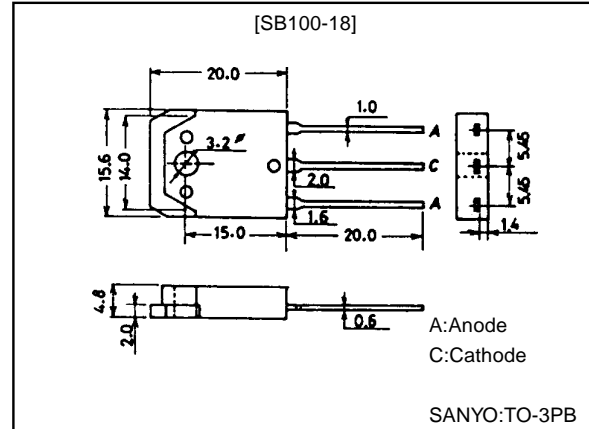
**Features**

- Low forward voltage ( $V_F$  max=0.85V).
- Fast reverse recovery time ( $t_{rr}$  max=45ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

**Package Dimensions**

unit:mm

1160

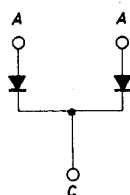
**Specifications****Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		-180	V
Non-repetitive Peak Reverse Surge Voltage	$V_{RSM}$		-190	V
Average Output Current	$I_O$	50Hz, resistive load, $T_c=102^\circ\text{C}$	10	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	100	A
Junction Temperature	$T_j$		-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

**Electrical Characteristics**

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=-4\text{mA}$ , $T_j=25^\circ\text{C}^*$	-180			V
Forward Voltage	$V_F$	$I_F=4\text{A}$ , $T_j=25^\circ\text{C}^*$			0.85	V
Reverse Current	$I_R$	$V_R=-90\text{V}$ , $T_j=25^\circ\text{C}^*$			-0.8	mA
Reverse Recovery Time	$t_{rr}$	$I_F=2\text{A}$ , $T_j=25^\circ\text{C}^*$ , $-dI_F/dt=10\text{A}/\mu\text{s}$			45	ns
Thermal Resistance	$R_{thj-c}$	Junction-Case:Smoothed DC			1.3	$^\circ\text{C}/\text{W}$

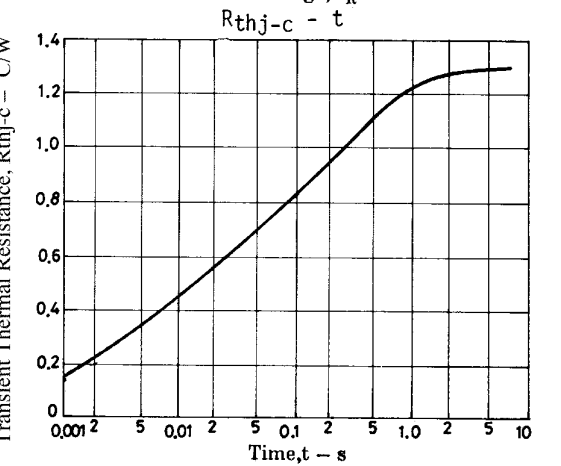
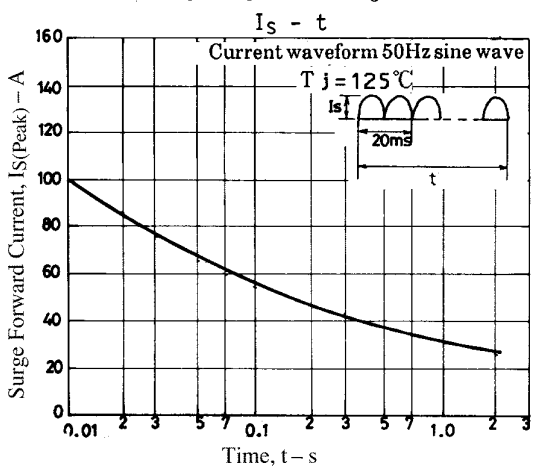
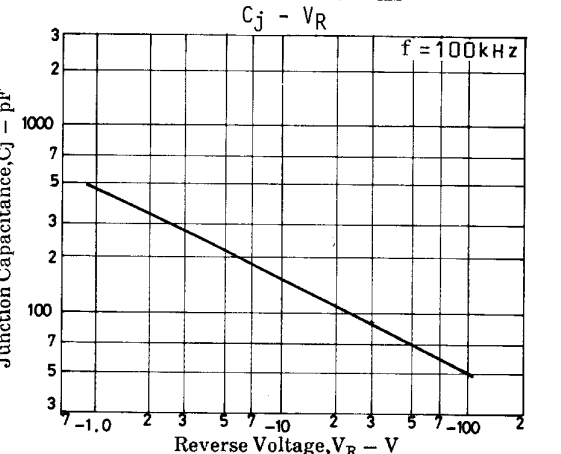
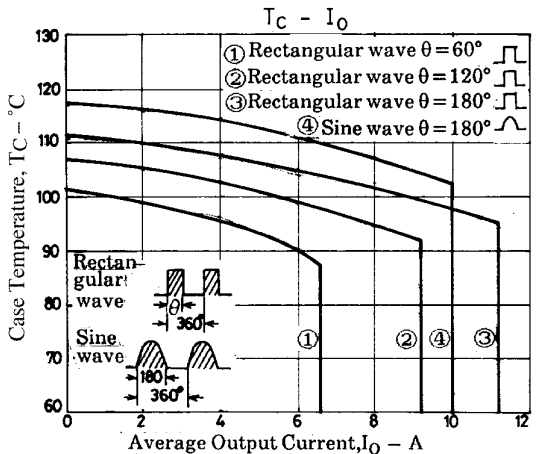
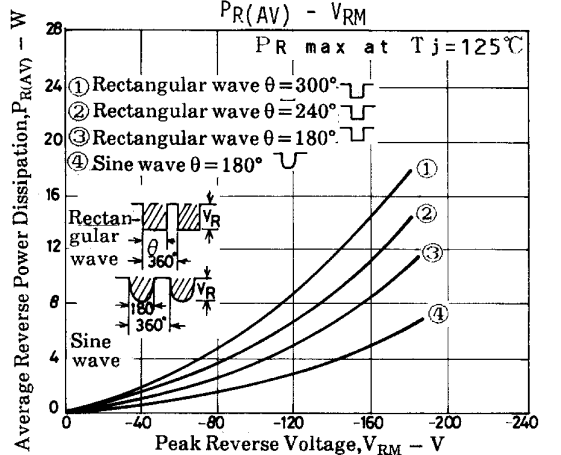
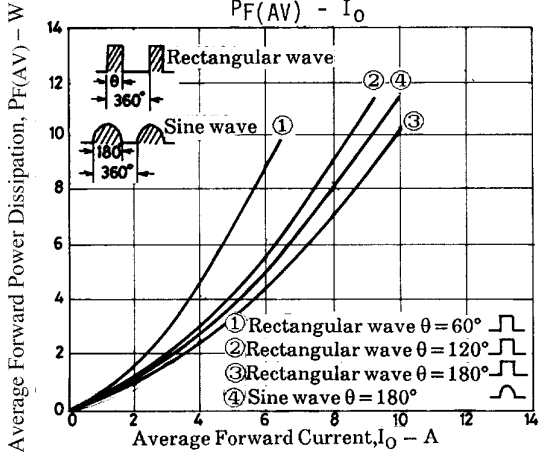
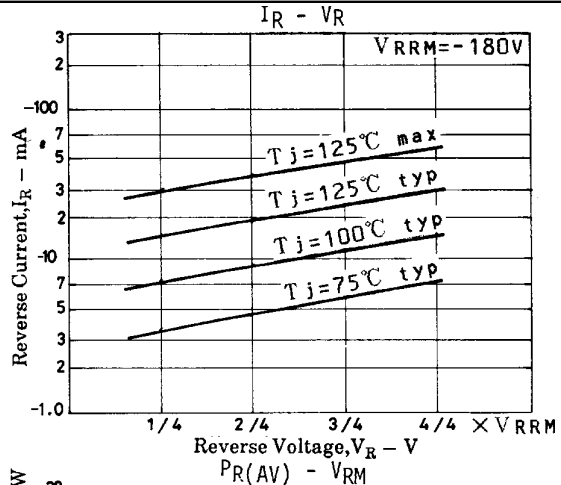
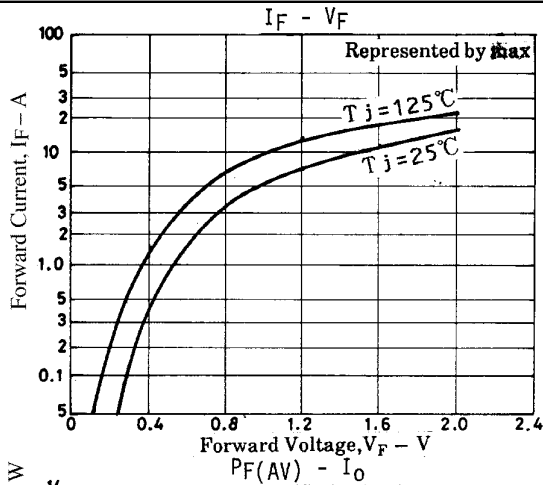
Note)\*: Value per element

**Electrical Connection**A: Anode  
C: Cathode**SANYO Electric Co.,Ltd. Semiconductor Business Headquarters**

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# SB100-18



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