

SANYO**SB160-09R**

Schottky Barrier Diode (Twin Type · Cathode Common)

90V, 16A Rectifier**Applications**

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

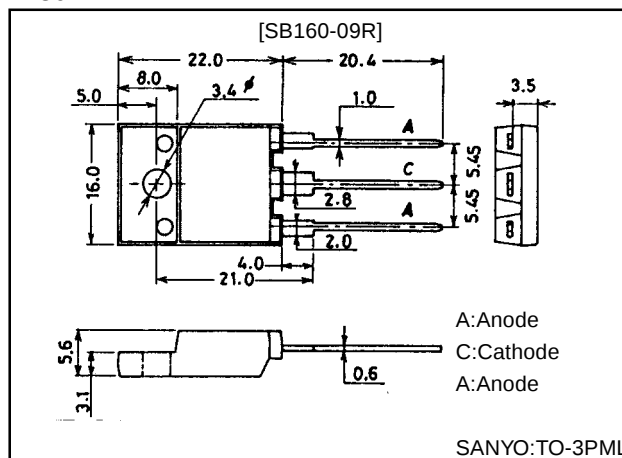
Features

- Low forward voltage (V_F max=0.85V).
- Fast reverse recovery time (t_{rr} max=50ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.
- Micaless package facilitating easy mounting.

Package Dimensions

unit:mm

1180

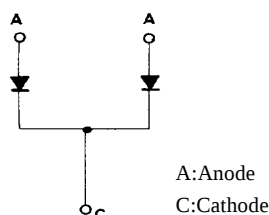
**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		-90	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		-95	V
Average Output Current	I_O	50Hz, resistive load, $T_c=80^\circ\text{C}$	16	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

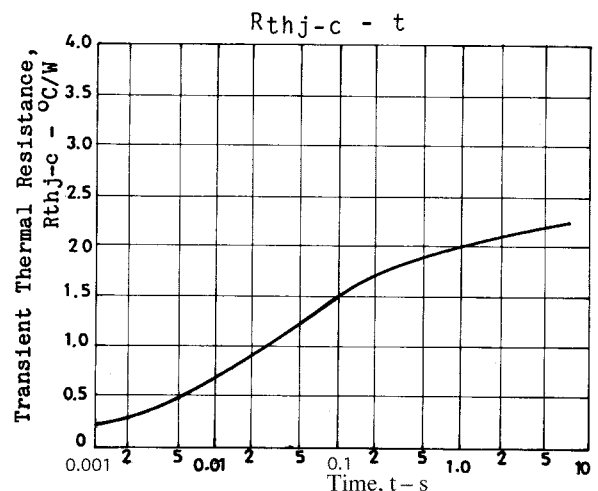
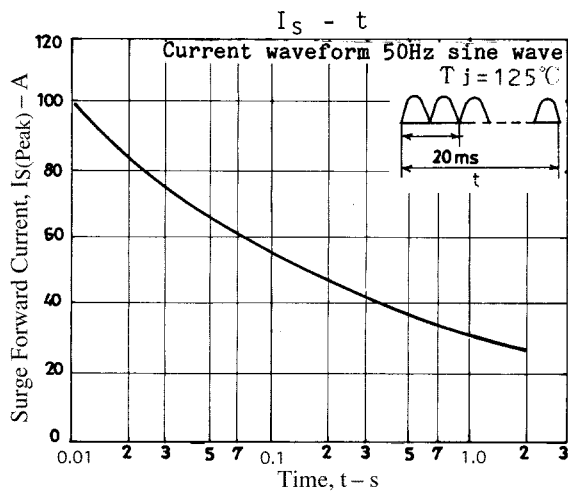
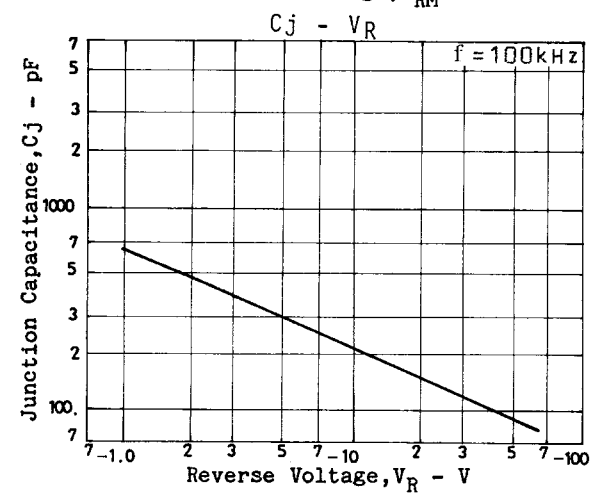
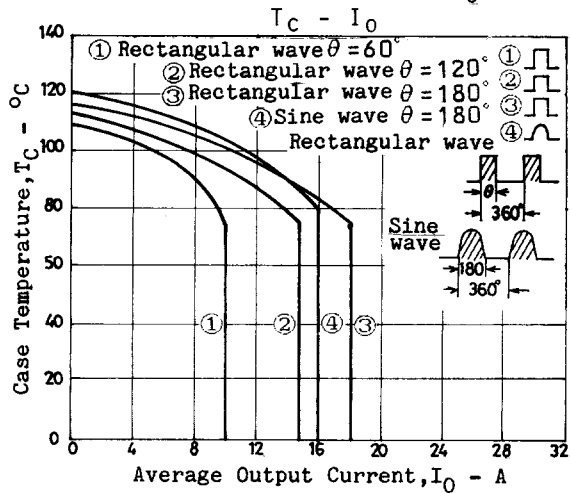
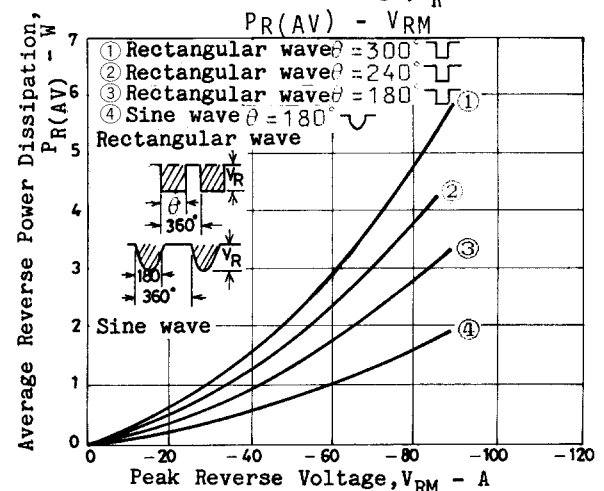
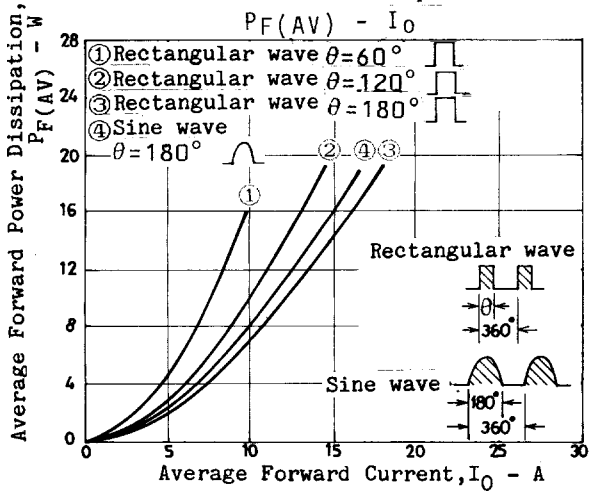
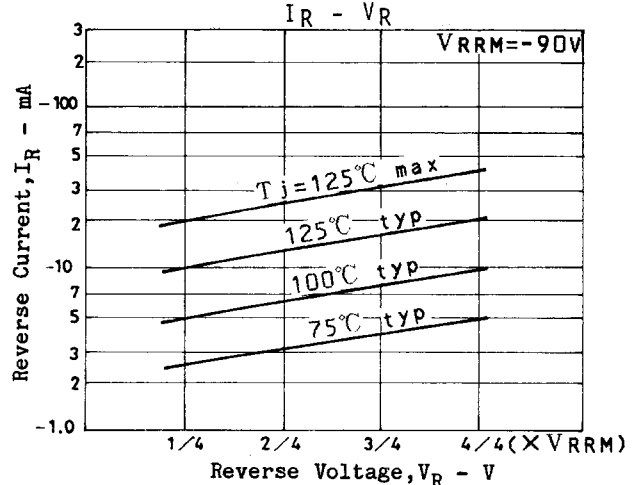
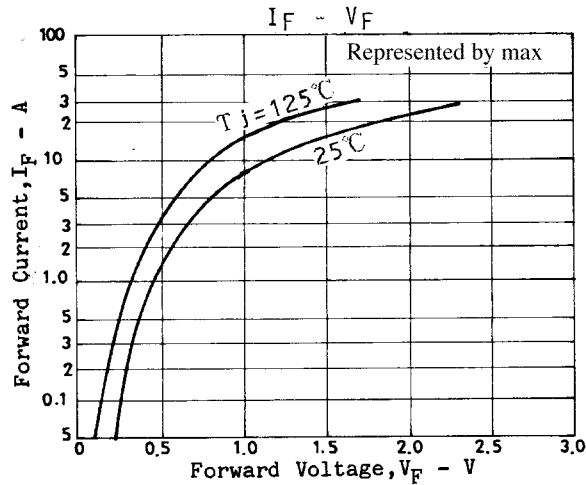
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=-3\text{mA}$, $T_j=25^\circ\text{C}^*$	-180			V
Forward Voltage	V_F	$I_F=6\text{A}$, $T_j=25^\circ\text{C}^*$			0.85	V
Reverse Current	I_R	$V_R=-45\text{V}$, $T_j=25^\circ\text{C}^*$			-1.2	mA
Reverse Recovery Time	t_{rr}	$I_F=2\text{A}$, $T_j=25^\circ\text{C}^*$, $-dI_F/dt=10\text{A}/\mu\text{s}$			60	ns
Thermal Resistance	R_{th-j-c}	Junction-Case:Smoothed DC			1.0	$^\circ\text{C}/\text{W}$

Note)*:Value per element

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