

SANYO**SB05-18V**

Schottky Barrier Diode

180V, 500mA Rectifier**Applications**

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

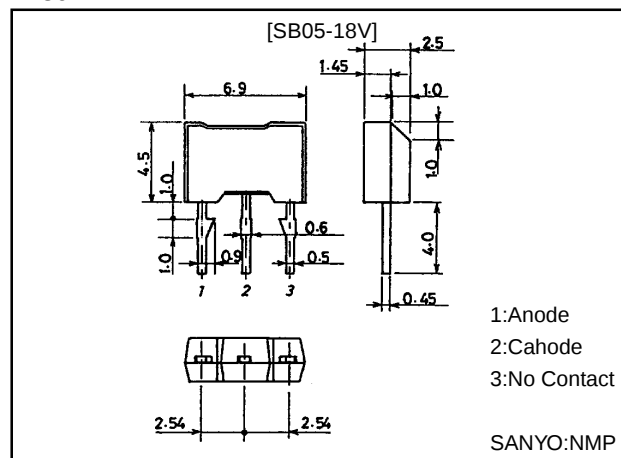
Features

- Low forward voltage (V_F max=0.85V).
- Fast reverse recovery time (t_{rr} max=20ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

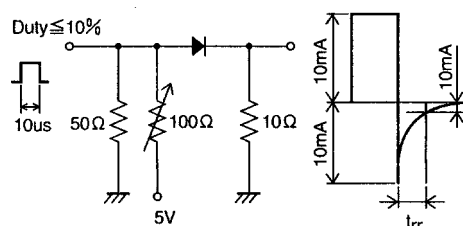
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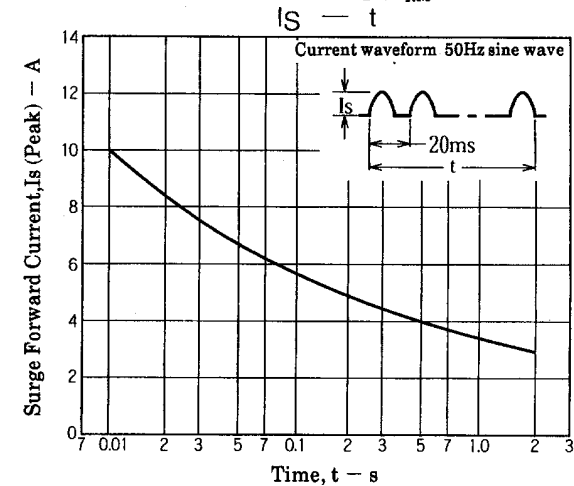
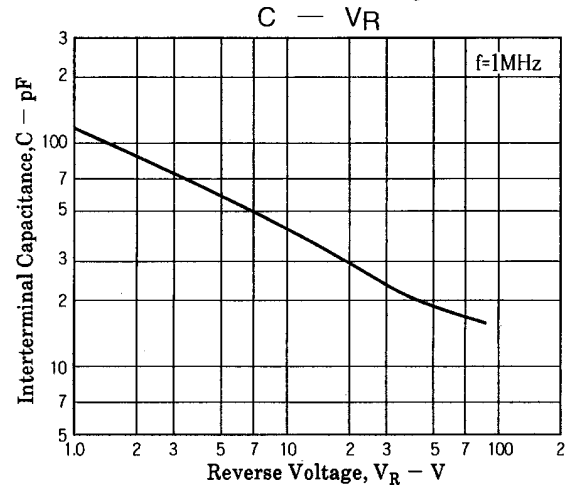
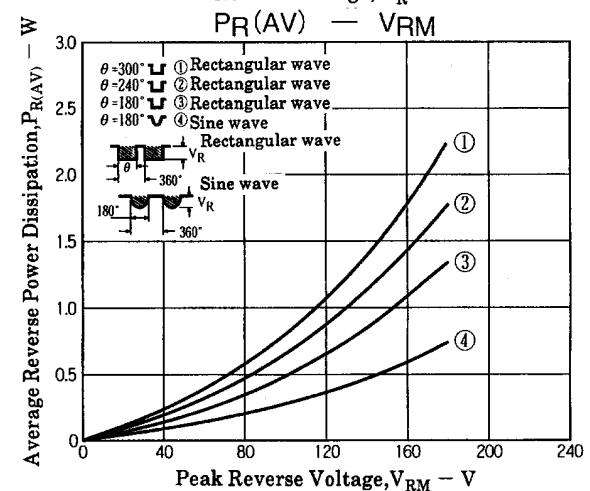
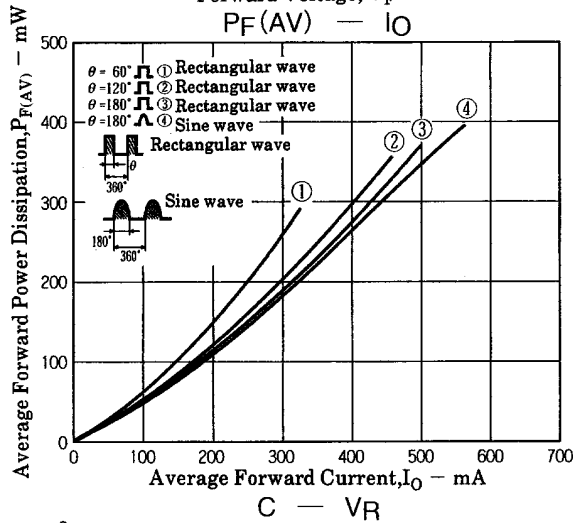
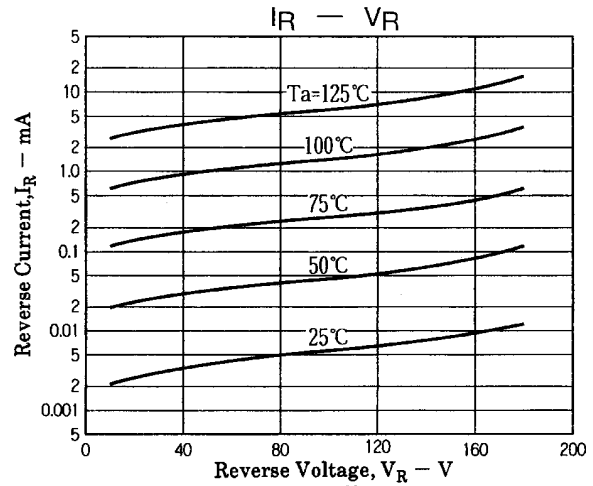
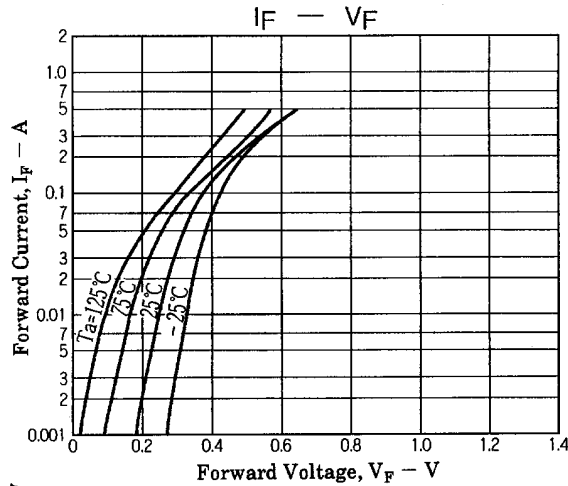
**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

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, $T_a=26^\circ\text{C}$	500	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	10	A
Junction Temperature	T_J		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=500\mu\text{A}$	180			V
Forward Voltage	V_F	$I_F=500\text{mA}$			0.85	V
Reverse Current	I_R	$V_R=90\text{V}$			60	μA
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		45		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$, See specified Test Circuit			20	ns
Thermal Resistance	$R_{th(j-a)}$			110		$^\circ\text{C/W}$

 t_{rr} Test Circuit



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- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.

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