

SANYO

SB20-03B

Schottky Barrier Diode

30V, 2A Rectifier

Applications

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

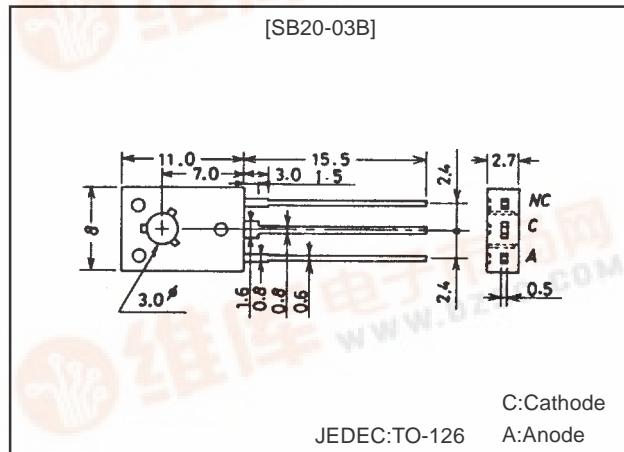
Features

- Low forward voltage (V_F max=0.55V).
- Fast reverse recovery time (trr max=20ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1212



Specifications

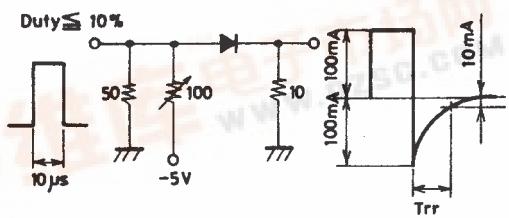
Absolute Maximum Ratings at $T_a = 25^\circ C$

Parameter	Symbol	Conditions	Ratings		Unit
Repetitive Peak Reverse Voltage	V_{RRM}			30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}			35	V
Average Output Current	I_O	50Hz, resistive load. $T_a=113^\circ C$		2	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle		20	A
Junction Temperature	T_j			-55 to +125	°C
Storage Temperature	T_{stg}			-55 to +125	°C

Electrical Characteristics at $T_a = 25^\circ C$

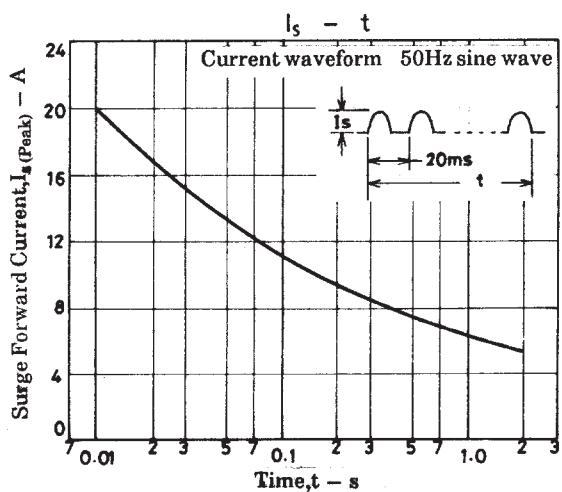
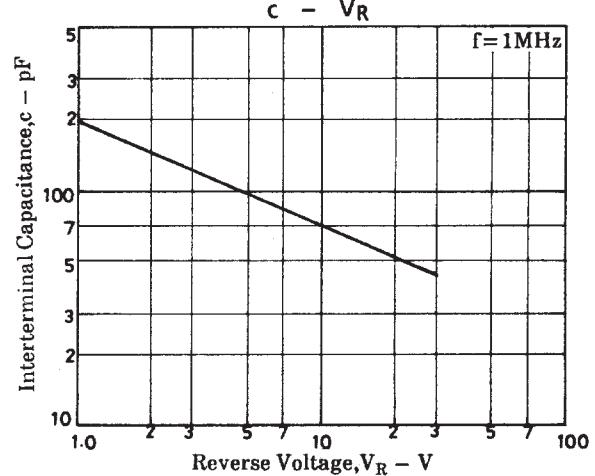
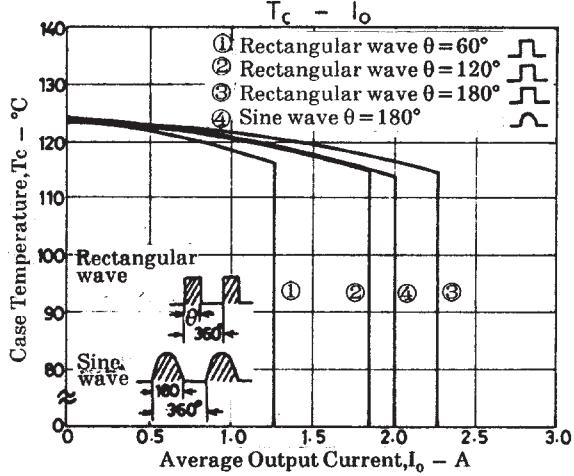
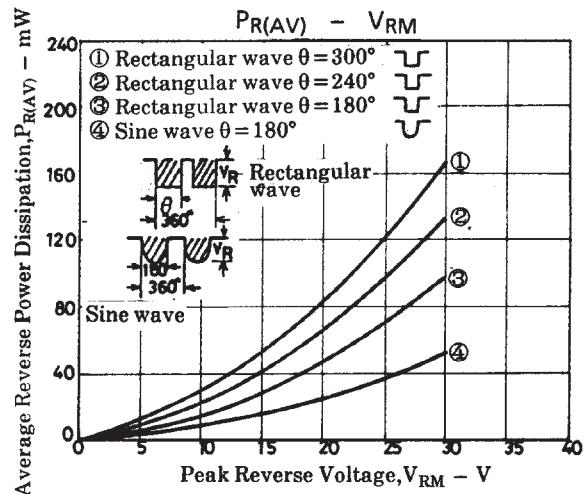
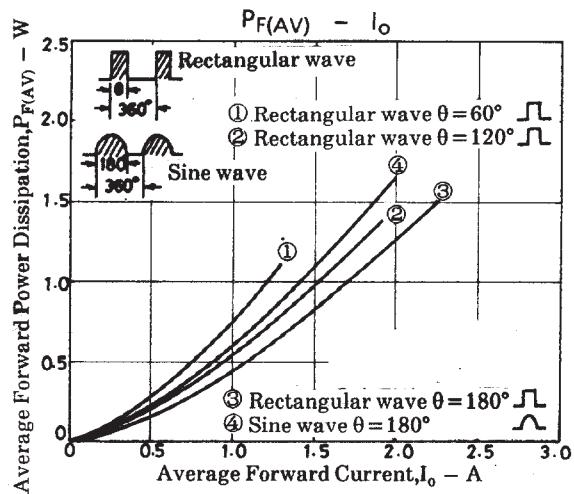
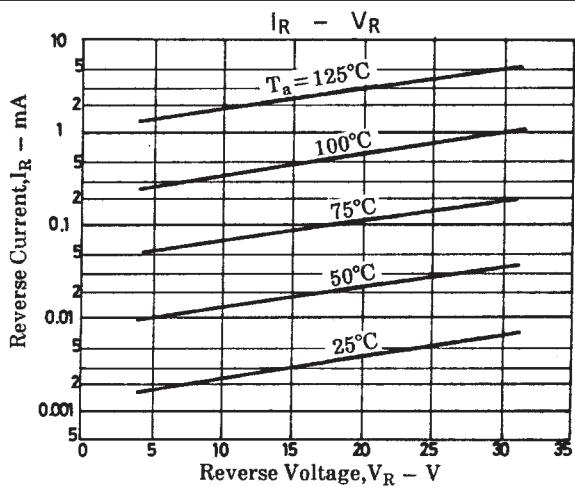
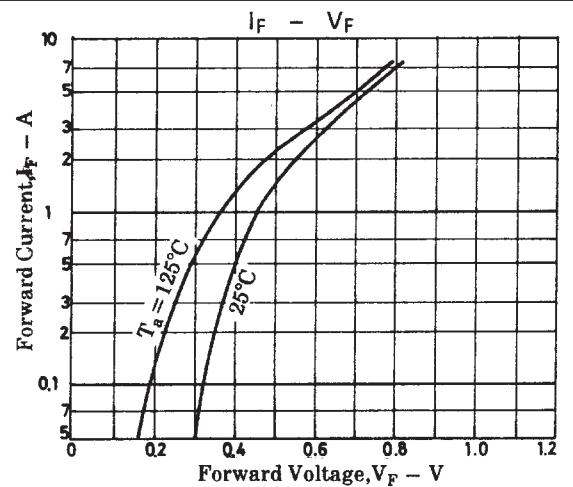
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=500\mu A$		30		V
Forward Voltage	V_F	$I_F=2A$			0.55	V
Reverse Current	I_R	$V_R=15V$			100	μA
Interterminal Capacitance	C	$V_R=10V, f=1MHz$		70		pF
Reverse Recovery Time	trr	$I_F=I_R=100mA$, See specified Test Circuit			20	ns
Thermal Resistance	R_{thj-c}	Junction-Case:Smoothed DC			7	°C/W

trr Test Circuit



Unit (resistance:Ω)

SB20-03B



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