Ordering number:EN3002

SB20-03E

Schottky Barrier Diode

30V, 2A Rectifier

Applications

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

Features

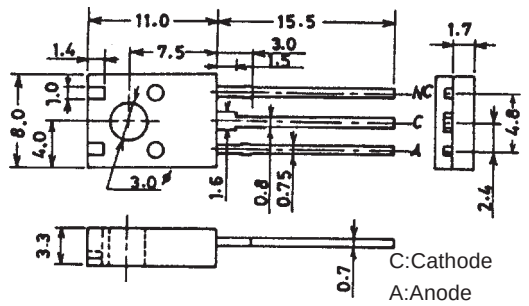
· Low forward voltage (V_F max=0.55V).
· Fast reverse recovery time (trr max=20ns).
· Low switching noise.
· Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1217

[SB20-03E]



SANYO:TO-126ML

Specifications

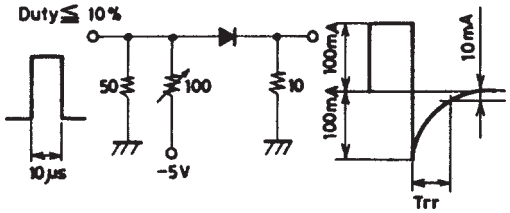
Absolute Maximum Ratings at Ta = 25˚C

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, Ta=113˚C	2	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	20	A
Junction Temperature	Tj		–55 to +125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

Electrical Characteristics at Ta = 25˚C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=500μA	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 sepcified Test Circuit			20	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC		7		˚C/W

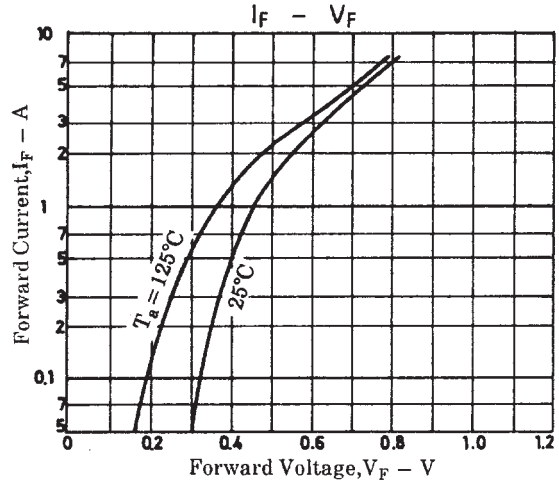
trr Test Circuit



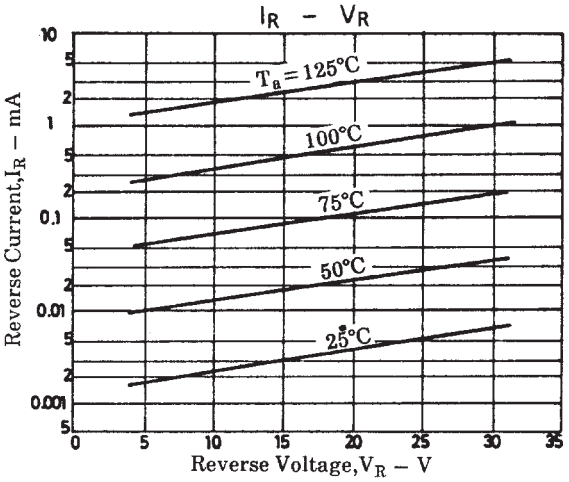
Unit (resistance:Ω)

SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

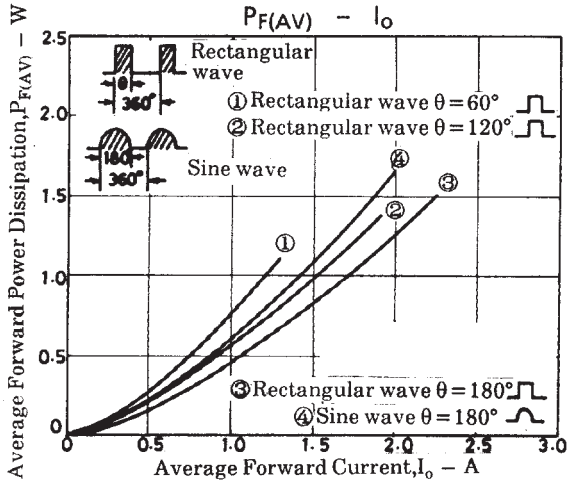
$I_F - V_F$



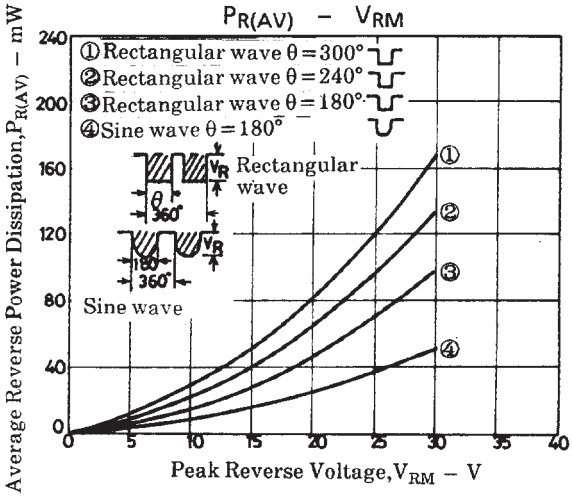
$I_R - V_R$



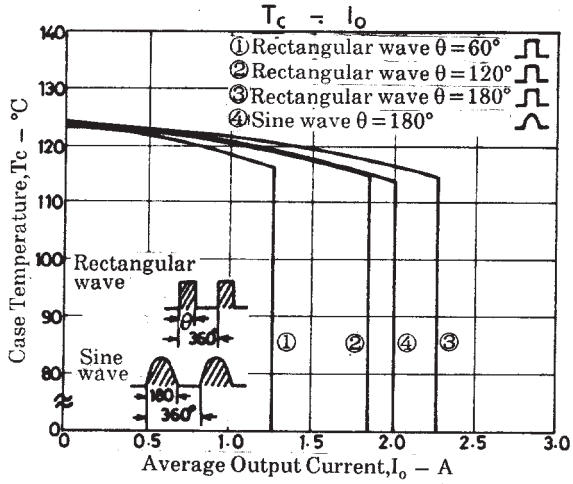
$P_{F(AV)} - I_O$



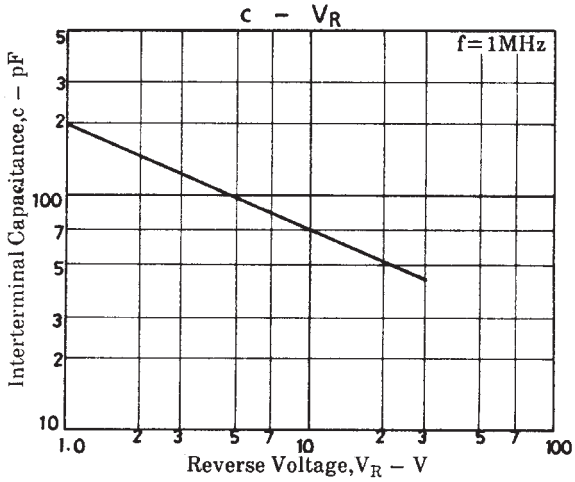
$P_{R(AV)} - V_{RM}$



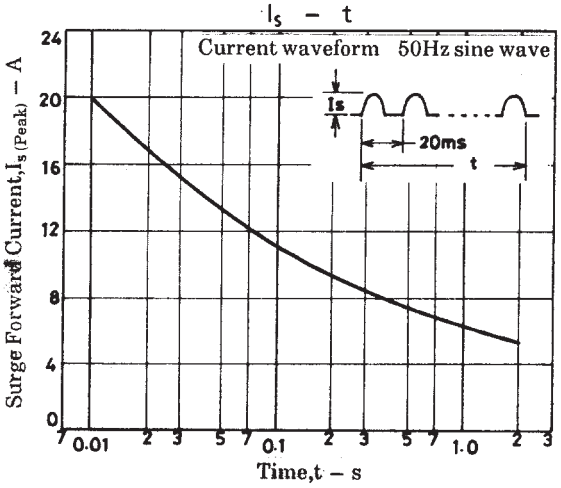
$T_C - I_O$



$C - V_R$



$I_S - t$



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