

SB05-05NP

Shottky Barrier Diode

50V, 500mA Rectifier

Applications

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

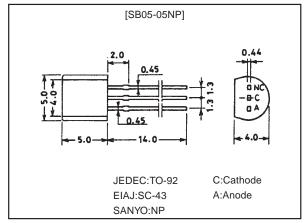
Features

- \cdot Low forward voltage (V_F max=0.55V).
- · Fast reverse recorvery time (trr max=10ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1157



Specifications

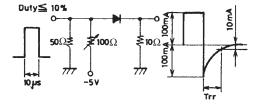
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		<i>–</i> 50	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		- 55	V
Average Output Current	lo	50Hz, resistive load, Ta=53°C	500	mA
Surge Forward Current	I _{FSM}	50Hz sine wave, 1cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

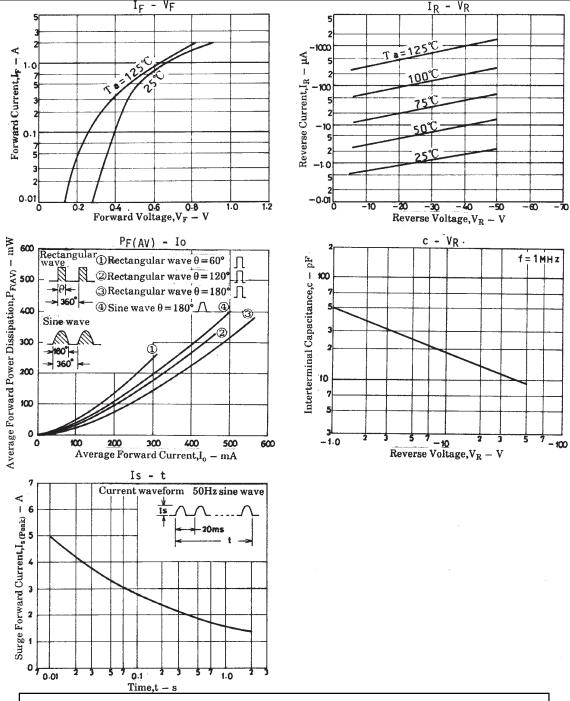
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	V_{R}	I _R =-200μA	-50			V
Forward Voltage	٧F	I _F =500mA			0.55	V
Reverse Current	I _R	V _R =-25V			-50	μΑ
Interterminal Capacitance	С	V _R =-10V, f=1MHz		18		pF
Reverse Recorvery Time	trr	I _F =I _R =100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a			165		°C/W

trr Test Circuit



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

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