

SB30-03P

Sillicon Epitaxial Schottky Barrier Diode

30V, 3A Rectifier

Applications

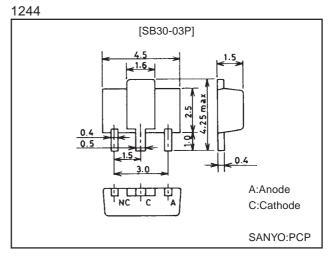
• High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (V_F max=0.55V).
- \cdot Fast reverse recovery time (trr max=30ns).
- · Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

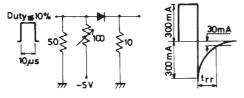
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	IO		3	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	VR	I _R =1mA	30			V
Forward Voltage	٧ _F	I _F =3A			0.55	V
Reverse Current	IR	V _R =15V			200	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		160		pF
Reverse Recovery Time	trr	IF=IR=300mA, See sepcified Test Circuit			30	ns
Thermal Resistance	Rthj-a (1)			280		°C/W
	Rthj-a (2)	Mounted on 250mm ² ×0.8mm ceramic board		100		°C/W

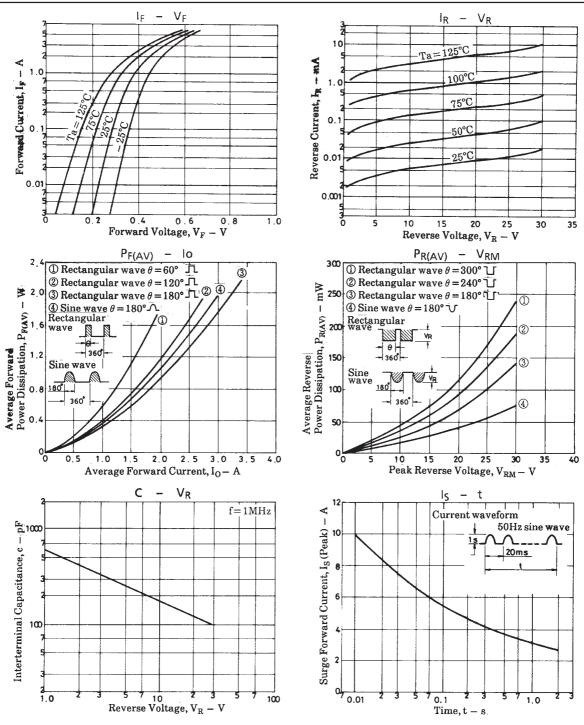
Marking:SG

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



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