

SB20-03P

Schottky Barrier Diode

30V, 2A Rectifier

Applications

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

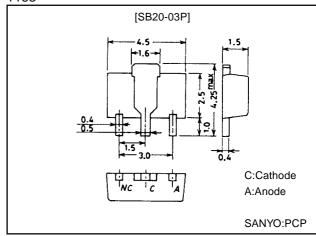
Features

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

Package Dimensions

unit:mm

1163



Specifications

Absolute Maximum Ratings at Ta = 25°C

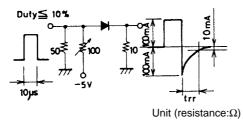
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		35	V
Average Output Current	lo		2	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

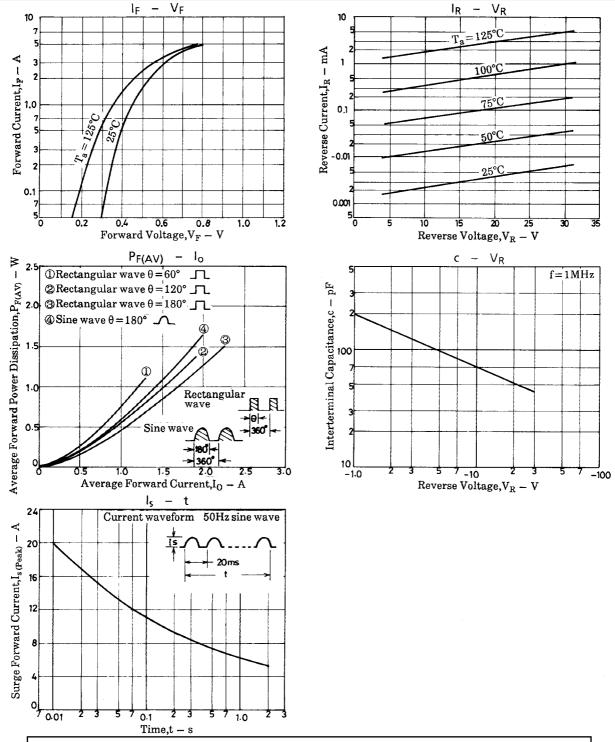
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	٧R	I _R =500μA	30			V
Forward Voltage	٧ _F	I _F =2A			0.55	V
Reverse Current	I _R	V _R =15V			100	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		70		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See sepcified Test Circuit			20	ns
Thermal Resistance (1)	Rthj-a (1)			300		°C/W
Thermal Resistance (2)	Rthj-a (2)	Mounted on 250mm ² ×0.8mm ceramic board		110		°C/W

Marking:SC

trr Test Circuit





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