

SB20-03P

Schottky Barrier Diode

# **30V, 2A Rectifier**

## **Applications**

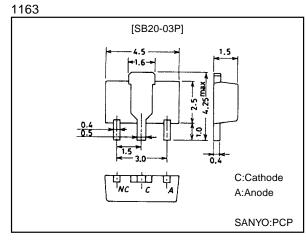
• High frequency rectification (switching regulators, converters, choppers).

#### **Features**

- · Low forward voltage (V<sub>F</sub> 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



## **Specifications**

#### Absolute Maximum Ratings at Ta = 25°C

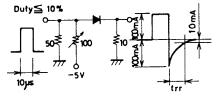
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		35	V
Average Output Current	lo		2	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg	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

#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	I <sub>R</sub> =500μA	30			V
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =2A			0.55	V
Reverse Current	IR	V <sub>R</sub> =15V			100	μA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		70		pF
Reverse Recovery Time	t <sub>rr</sub>	IF=IR=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 <sup>2</sup> ×0.8mm ceramic board		110		°C/W

#### Marking:SC

#### trr Test Circuit



Unit (resistance:Ω)

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