

SB10-05PCP

Schottky Barrier Diode

50V, 1A Rectifier

Applications

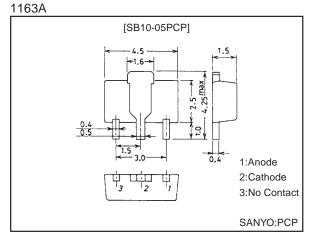
• High frequency rectification (switching regulators, converters, choppers).

Features

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

Package Dimensions

unit:mm



Specifications

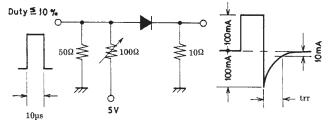
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		55	V
Average Output Current	lo		1	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	А
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	Unit
Reverse Voltage	VR	I _R =300μA	50			V
Forward Voltage	VF	I _F =1A			0.55	V
Reverse Current	I _R	V _R =25V			80	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		52		pF
Reverse Recovery Time	trr	I _F =I _R =100mA, See specifaied Test Circuit			10	ns
Thermal Resistance	Rthj-a (1)			300		°C/W
	Rthj-a (2)	Mounted on ceramic board (250mm ² ×0.8mm)		110		°C/W

trr Test Circuit



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