

SB10W05P

Schottky Barrier Diode (Twin Type - Cathode Common)

50V, 1A Rectifier

Applications

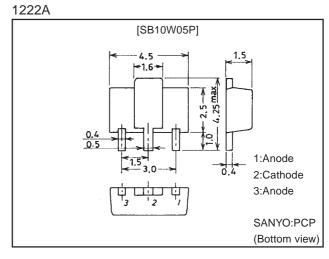
• High frequency rectification (switching regulators, converters, choppers).

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 (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		55	V
Average Output Current	IO		1	A
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

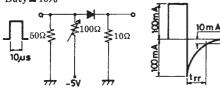
Electrical Characteristics at Ta = 25°C (Value per element)

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	I _R =300μA	50			V
Forward Voltage	٧ _F	I _F =1A			0.55	V
Reverse Current	IR	V _R =25V			80	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		52		pF
Reverse Recovery Time	trr	I _F =I _R =100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a) (1)			280		°C/W
	Rth(j-c) (2)	Mounted on 250mm ² ×0.8mm ceramic board		100		°C/W

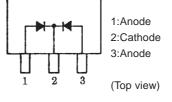
· Marking:SL

trr Test Circuit





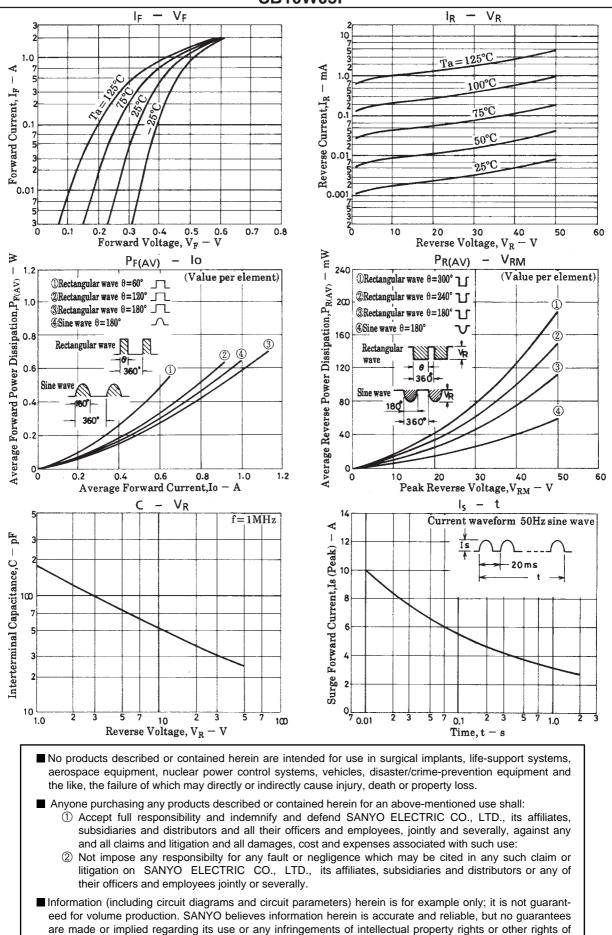
Electrical Connection



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This catalog provides information as of April, 1998. Specifications and information herein are subject to change without notice.

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