

SB005-09CP

Shottky Barrier Diode

90V, 50mA Rectifier

Applications

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

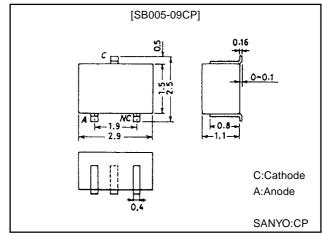
Features

- \cdot Low forward voltage (V_F max=0.7V).
- · Fast reverse recovery time (trr=10ns max).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planner structure.

Package Dimensions

unit:mm

1148



Specifications

Absolute Maximum Ratings at Ta = 25°C

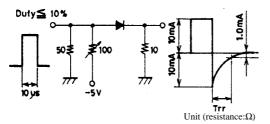
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		-90	V
Non-repetitve Peak Reverse Surge Voltage	VRSM		- 95	V
Average Output Current	Io		50	mA
Surege Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	2	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

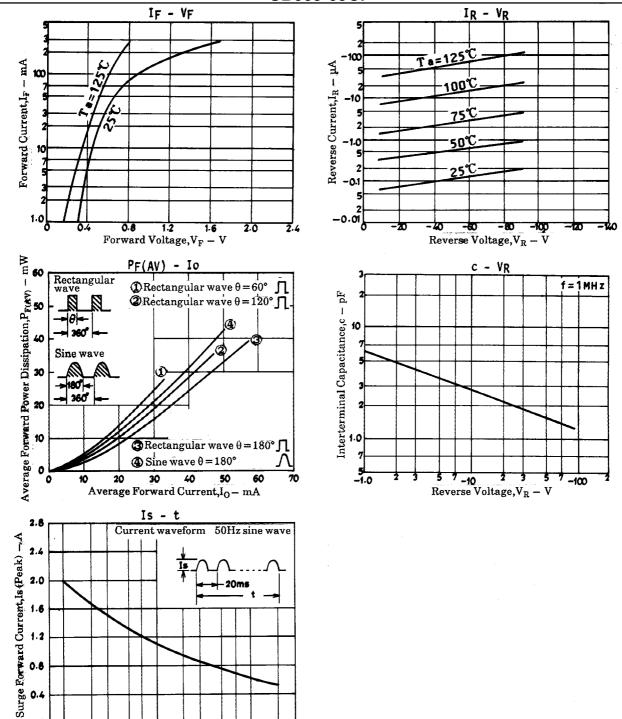
Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Reverse Voltage	V _R	I _R =-50μA	-90			V
Forward Voltage	٧ _F	I _F =50mA			0.7	V
Reverse Current	I _R	V _R =-45V			-15	μA
Interterminal Capacitance	С	V _R =-10V, f=1MHz		2.8		pF
Reverse Recovery Time	trr	I _F =I _R =100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rthj-a (1)			560		°C/W
		Mounted in Cu-foiled area of 16mm ² ×0.2mmt on glass epoxy board		410		°C/W

· Marking:C

trr Test Circuit



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0.8

0.4

0 0.01

0.1

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