

SB05W05P

Schottky Barrier Diode (Twin Type - Cathode Common)

50V, 500mA Rectifier

Applications

- · Universal-use rectifier.
- · High frequency rectification (switching regulators, converters, choppers).

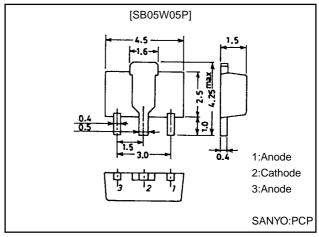
Features

- · Low forward voltage (V_F max=0.55V).
- · Fast reverse recovery time (t_{rr} max=10ns).
- · Low swicthing noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1239A



Specifications

Absolute Maximum Ratings at Ta = 25°C (Value per element)

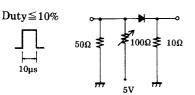
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		50	V
Non-repetitive Peak Reverse Surge Voltage	VRSM		55	V
Average Output Current	lo		500	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 tp +125	°C

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	v_R	I _R =200μA	50			V
Forward Voltage	٧ _F	I _F =500mA			0.55	V
Reverse Current	I_{R}	V _R =25V			50	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		25		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rth(j-a)1			300		°C/W
	Rth(j-a)2	Mounted on a 250mm ² ×0.8mm ceramic board		110		°C/W

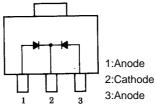
Marking: SE

t_{rr} Test Circuit

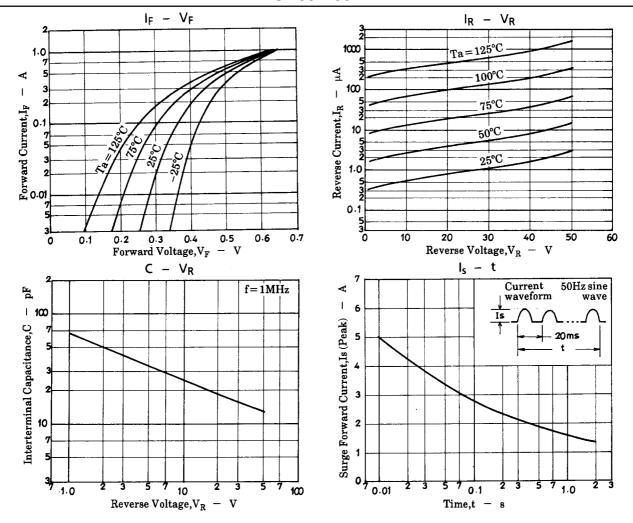




Electrical Connection



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