

SB10W05V

Schottky Barrier Diode (Twin Type · Cathode Common)

50V, 1A Rectifier

Applications

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

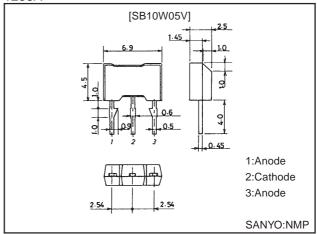
Features

- · Low forward voltage (V_F max=0.55V).
- · 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

1238A



Specifications

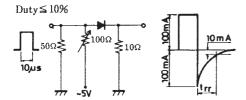
Absolute Maximum Ratings at Ta = 25°C (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		55	V
Average Output Current	lo		1	А
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	10	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

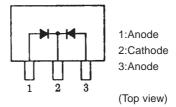
Electrical Characteristics at Ta = 25°C (Value per element)

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Onn
Reverse Voltage	V _R	I _R =300μA	50			V
Forward Voltage	٧ _F	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 specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)			110		°C/W

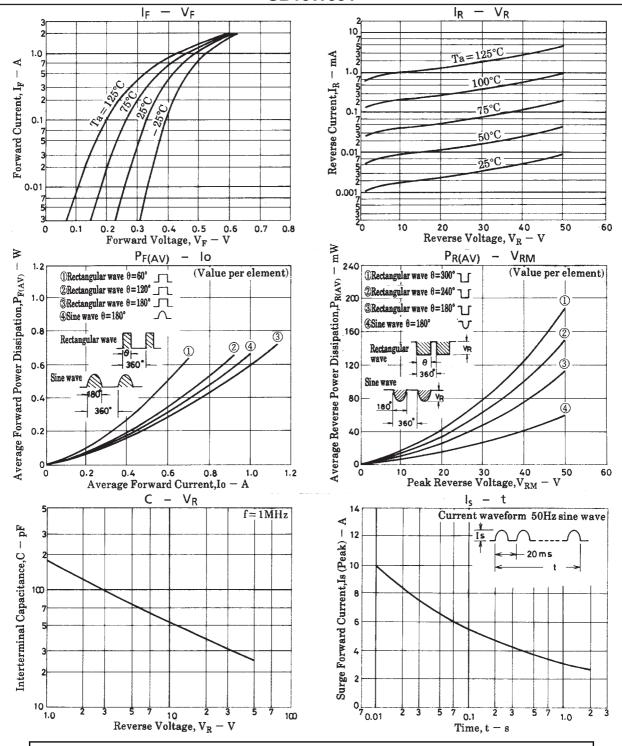
trr Test Circuit



Electrical Connection



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