

SB05-18V

Schottky Barrier Diode

180V, 500mA Rectifier

Applications

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

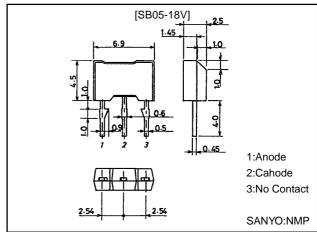
Features

- · Low forward voltage (V_F max=0.85V).
- · Fast reverse recovery time (t_{rr} max=20ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1289



Specifications

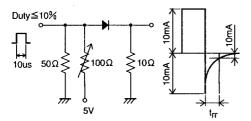
Absolute Maximum Ratings at Ta = 25°C

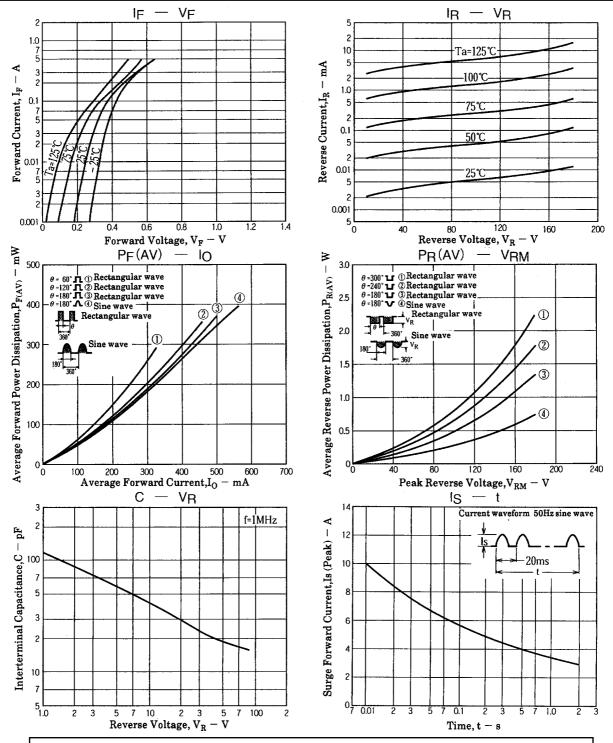
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		180	V
Non-repetitive Peak Reverse Surge Voltage	VRSM		190	V
Average Output Current	lo	50Hz resistive load, Ta=26°C	500	mA
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	10	Α
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		−55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oilit
Reverse Voltage	V_{R}	I _R =500μA	180			V
Forward Voltage	٧F	IF=500mA			0.85	V
Reverse Current	I_{R}	V _R =90V			60	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		45		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit			20	ns
Thermal Resistance	Rth(j-a)			110		°C/W

t_{rr} Test Circuit





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