

SB05-09

Shottky Barrier Diode

90V, 500mA Rectifier

Applications

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

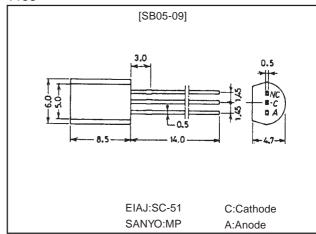
Features

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

Package Dimensions

unit:mm

1158



Specifications

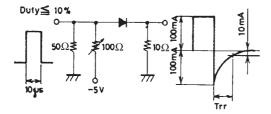
Absolute Maximum Ratings at Ta = 25°C

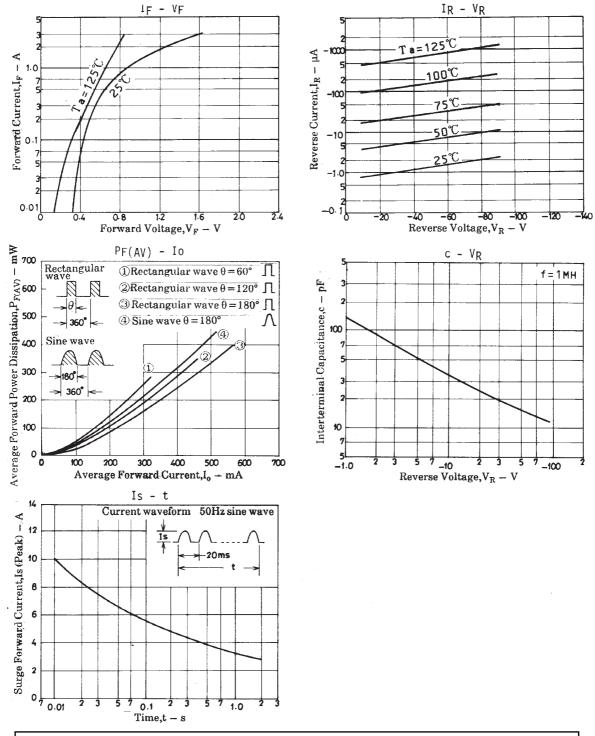
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		-90	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		-95	V
Average Output Current	Io	50Hz, resistive load, Ta=60°C	500	mA
Surge Forward Current	I _{FSM}	50Hz sine wave, 1cycle	10	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I _R =-300μA	-90			V
Forward Voltage	٧ _F	I _F =500mA			0.7	V
Reverse Current	I _R	V _R =-45V			-80	μA
Interterminal Capacitance	С	V _R =-10V, f=1MHz		34		pF
Reverse Recorvery Time	trr	I _F =I _R =100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a			110		°C/W

trr Test Circuit





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