

SB10-05

Schottky Barrier Diode

50V, 1A Rectifier

Applications

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

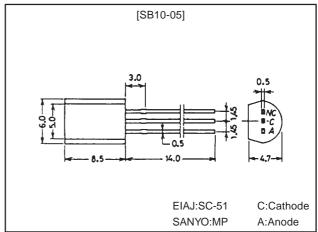
Features

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

Package Dimensions

unit:mm

1158



Specifications

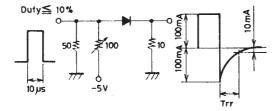
Absolute Maximum Ratings at Ta = 25°C

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

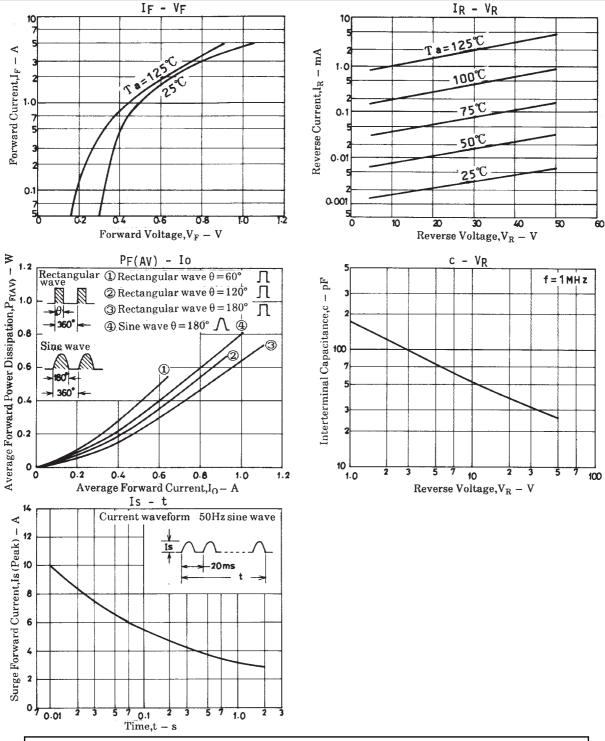
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onn
Reverse Voltage	٧R	I _R =300μA	50			V
Forward Voltage	٧ _F	I _F =1A			0.55	V
Reverse Current	I _R	V _R =25V			80	μA
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	Rthj-a			110		°C/W

trr Test Circuit



Unit (resistance: Ω)



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