

SB30-03F

Schottky Barrier Diode

30V, 3A Rectifier

Applications

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

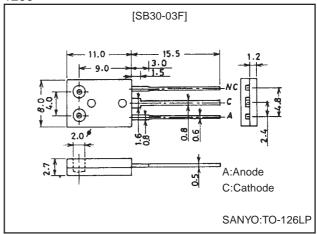
Features

- · Low forward voltage (V_F max=0.55V).
- · Fast reverse recovery time (trr max=30ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1200



Specifications

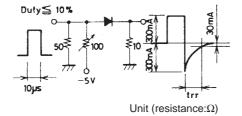
Absolute Maximum Ratings at Ta = 25°C

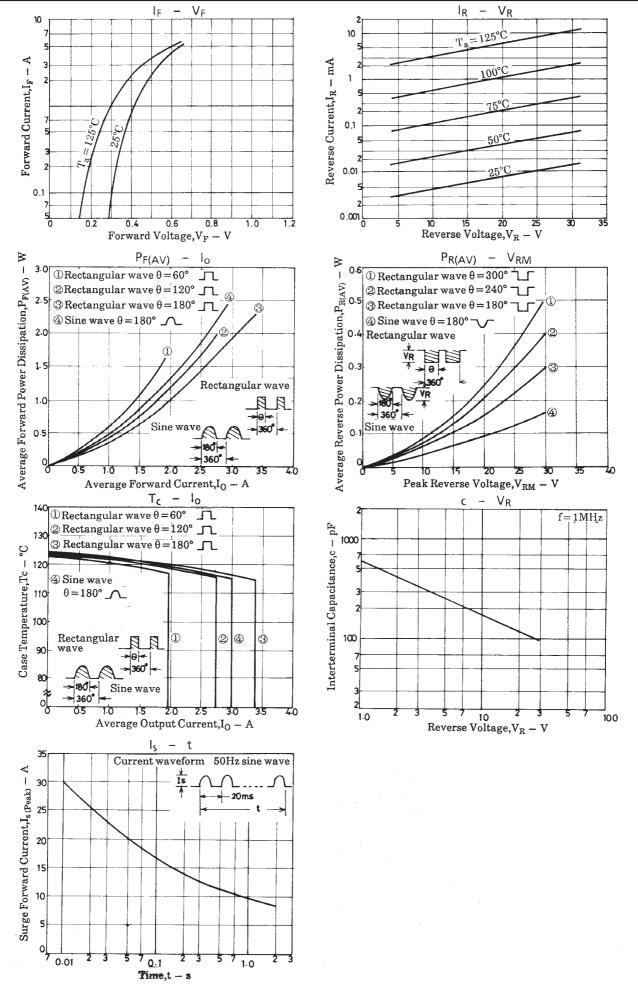
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		35	V
Average Output Current	IO	50Hz, resistive load, Tc=114°C	3	Α
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	30	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	٧R	I _R =2mA	30			V
Forward Voltage	٧ _F	I _F =3A			0.55	V
Reverse Current	I _R	V _R =15V			700	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		160		pF
Reverse Recovery Time	trr	I _F =I _R =300mA, See sepcified Test Circuit			30	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC		4		°C/W

trr Test Circuit





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