

SB30-03Z

Schottky Barrier Diode

# 30V, 3A Rectifier

## **Applications**

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

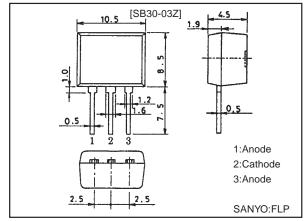
#### **Features**

- $\cdot$  Low forward voltage (V<sub>F</sub> 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

1243A



# **Specifications**

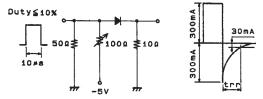
### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	lo		3	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

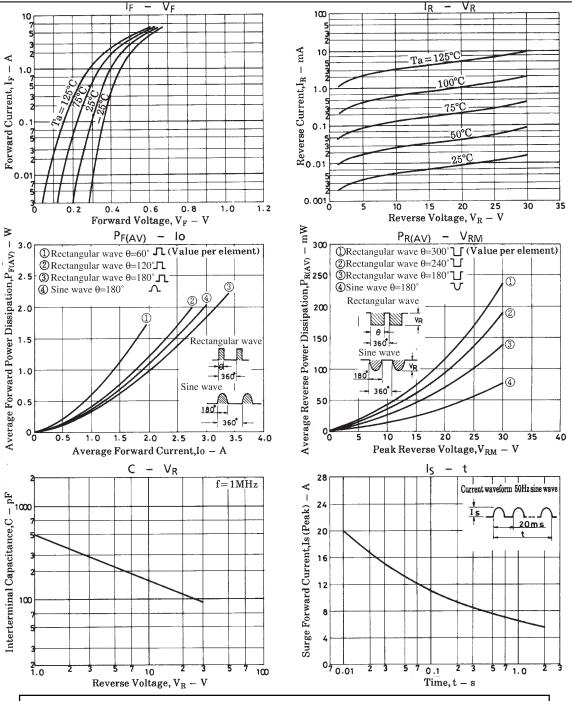
#### Electrical Characteristics at Ta = 25°C

Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	Offic
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =1mA	30			V
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =3A			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =15V			200	μA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		160		pF
Reverse Recovery Time	trr	I <sub>F</sub> =I <sub>F</sub> =300mA, See sepcified Test Circuit			30	ns
Thermal Resistance	Rth(j-a)			75		°C/W

#### trr Test Circuit



### SB30-03Z



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