

# **SB30W03Z**

Schottky Barrier Diode (Twin Type - Cathode Common)

30V, 3A Rectifier

### **Applications**

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

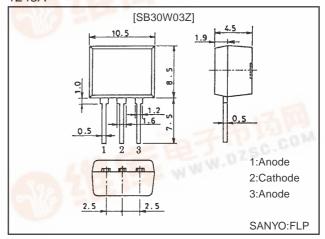
#### **Features**

- · 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

1243A



## **Specifications**

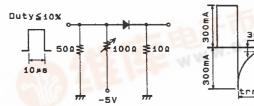
#### Absolute Maximum Ratings at Ta = 25°C (Value per element)

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	I <sub>O</sub>	- 1 to 1 t	3	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj	180 7 4 4 4	-55 to +125	°C
Storage Temperature	Tstg	LEN SING	-55 to +125	°C

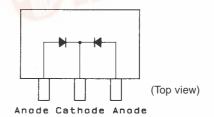
#### Electrical Characteristics at Ta = 25°C (Value per element)

Parameter	C 1 0750	Conditons		Ratings		
	Symbol		min	typ	max	Unit
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =1mA	30			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =3A			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =15V			200	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz	1144	160		pF
Reverse Recovery Time	trr	I <sub>F</sub> =I <sub>R</sub> =300mA, See specified Test Circuit.		n7	30	ns
Thermal Resistance	Rth(j-a)		The same of	70		°C/W

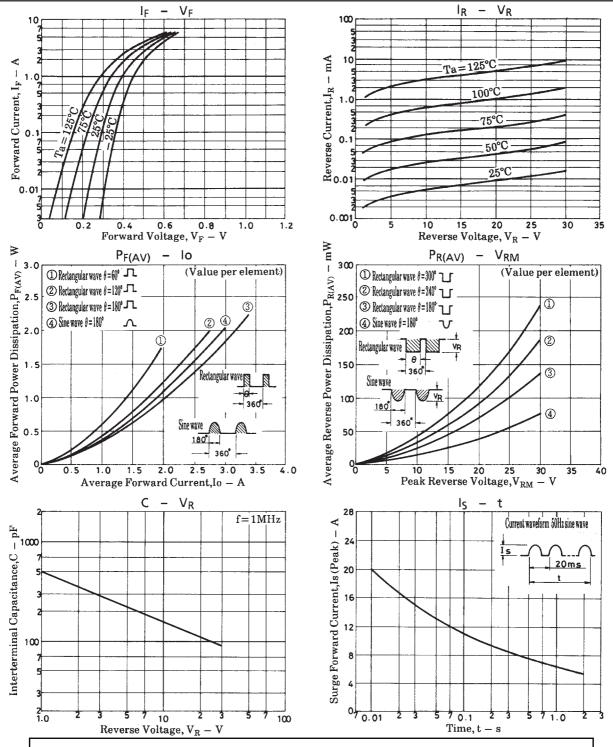
#### trr Test Circuit



#### **Electrical Connection**



### **SB30W03Z**



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