

SB20-05Z

Schottky Barrier Diode

# 50V, 2A Rectifier

### **Applications**

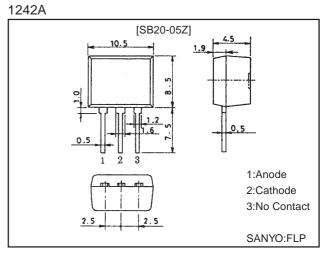
• High frequency rectification (switching regulators, converters, choppers).

### **Features**

- · Low forward voltage ( $V_F$  max=0.55V).
- $\cdot$  Fast reverse recovery time (trr max=20ns).
- · Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

## **Package Dimensions**

unit:mm



## **Specifications**

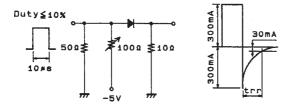
### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		55	V
Average Output Current	IO		2	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

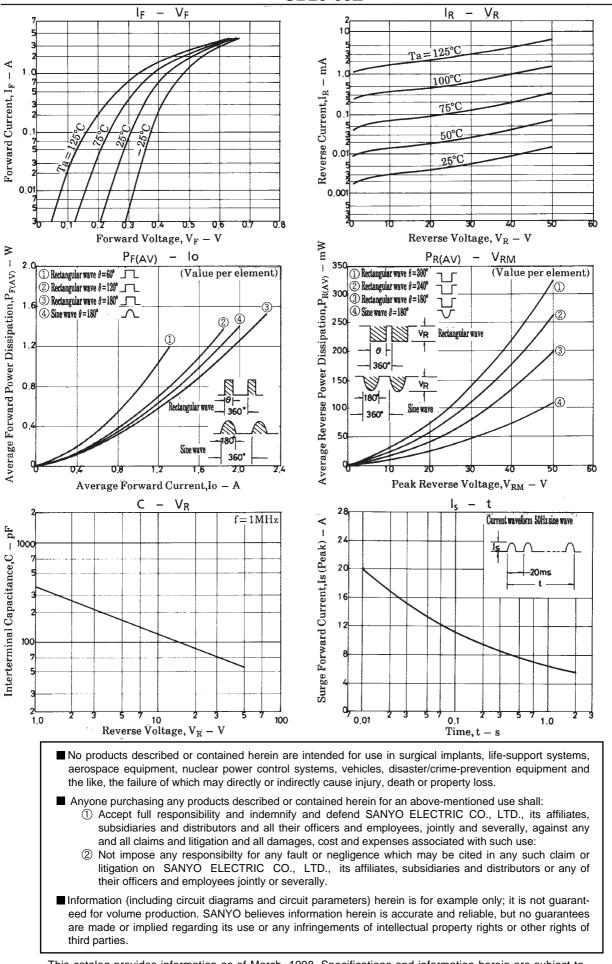
#### **Electrical Characteristics at Ta = 25°C**

Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	VR	I <sub>R</sub> =1mA	50			V
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =2A			0.55	V
Reverse Current	۱ <sub>R</sub>	V <sub>R</sub> =25V			200	μA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		120		pF
Reverse Recovery Time	trr	I <sub>F</sub> =I <sub>F</sub> =300mA, See sepcified Test Circuit			20	ns
Thermal Resistance	Rth(j-a)			75		°C/W

#### trr Test Circuit



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This catalog provides information as of March, 1998. Specifications and information herein are subject to change without notice.