Ordering number :EN1983A



# SB200-05H

Schottky Barrier Diode (Twin Type - Cathode Common)

50V, 20A Rectifier

## **Applications**

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

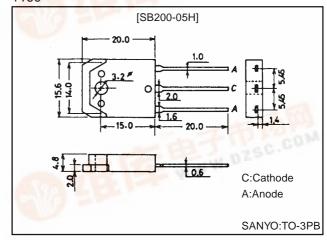
### **Features**

- · Low forward voltage ( $V_F$  max=0.55V).
- · Fast reverse recovery time (trr max=85ns).
- · Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

## **Package Dimensions**

unit:mm

1160



## **Specifications**

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

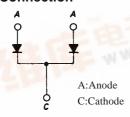
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		-50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		-55	V
Average Output Current	Io	50Hz, resistive load, Tc=107°C	20	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	200	А
Junction Temperature	Tj	190 4 5 5	-55 to +125	°C
Storage Temperature	Tstg	LEM ENVIOLE	-55 to +125	°C

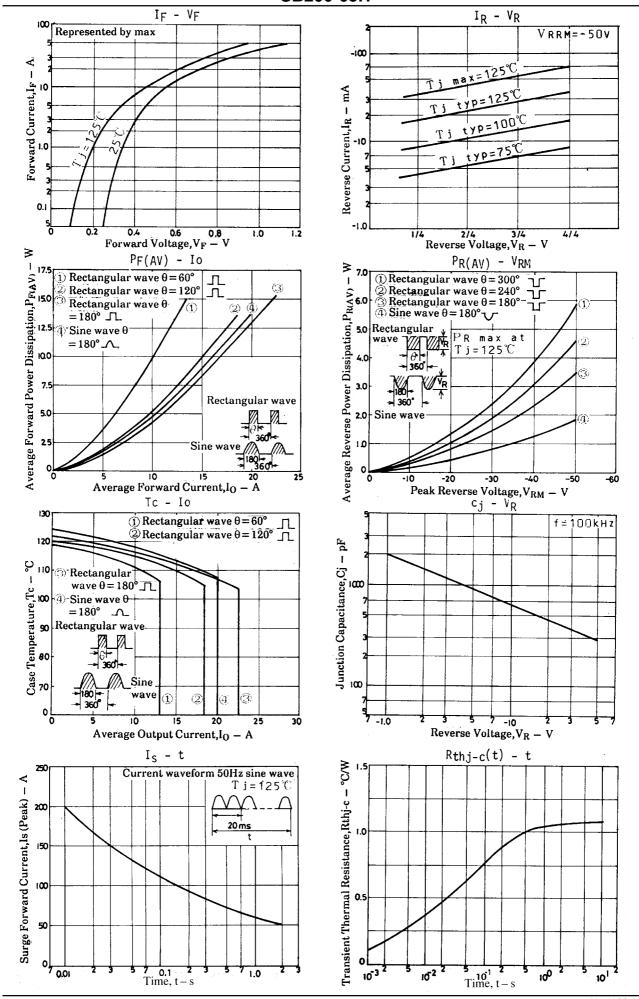
#### **Electrical Characteristics**

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =-5mA, Tj=25°C*	-50			V
Forward Voltage	VF	I <sub>F</sub> =10A, Tj=25°C*			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =-25V, Tj=25°C*			-1.0	mA
Reverse Recovery Time	trr	I <sub>F</sub> =2A, Tj=25°C*, -dI <sub>F</sub> /dt=10A/μs			85	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC		a 07	1.1	°C/W

Note)\*:Value per element

#### **Electrical Connection**





### SB200-05H

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