

## SB20-05J

Schottky Barrier Diode (Twin Type - Cathode Common)

# 50V, 2A Rectifier

### **Applications**

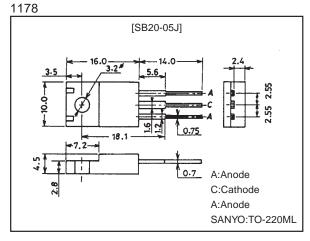
• High frequency rectification (switching regulators, converters, choppers).

### **Features**

- · Low forward voltage (V<sub>F</sub> max=0.55V).
- $\cdot$  Fast reverse recovery time (trr max=30ns).
- · Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.
- · Micaless package facilitating easy mounting.

### **Package Dimensions**

unit:mm



## **Specifications**

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

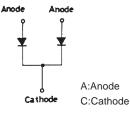
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		55	V
Average Output Current	l0	50Hz, resistive load, Tc=116°C	2	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	60	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	I <sub>R</sub> =0.5mA, Tj=25°C, *	50			V
Forward Voltage	VF	I <sub>F</sub> =1A, Tj=25°C, *			0.55	V
Reverse Current	۱ <sub>R</sub>	V <sub>R</sub> =25V, Tj=25°C, *			0.1	mA
Reverse Recovery Time	trr	I <sub>F</sub> =2A, Tj=25°C, *,-dI <sub>F</sub> /dt=10A/μs			30	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			5.5	°C/W

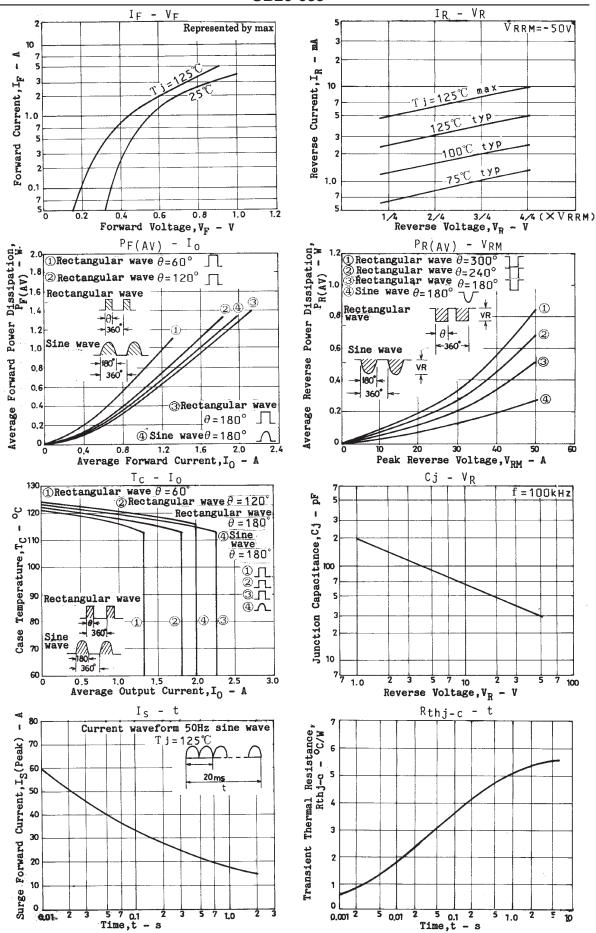
Note \*: Value per element

#### **Electrical Connection**



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