

## **SBA50-04J**

Schottky Barrier Diode (Twin Type · Cathode Common)

# 40V, 5A Rectifier

## **Applications**

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

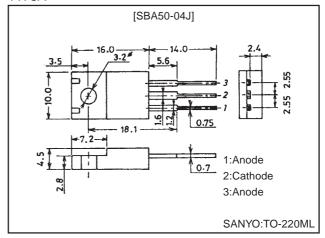
### **Features**

- · Low forward voltage ( $V_F$  max=0.55V).
- · Fast reverse recovery time.
- · Low switching noise.
- · High reliability due to highly reliable planar structure
- · Micaless package facilitating easy mounting.

# **Package Dimensions**

unit:mm

1178A



## **Specifications**

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

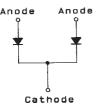
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		40	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		44	V
Average Output Current	Io	50Hz, resistive load, Tc=105°C	5	Α
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1 cycle	80	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

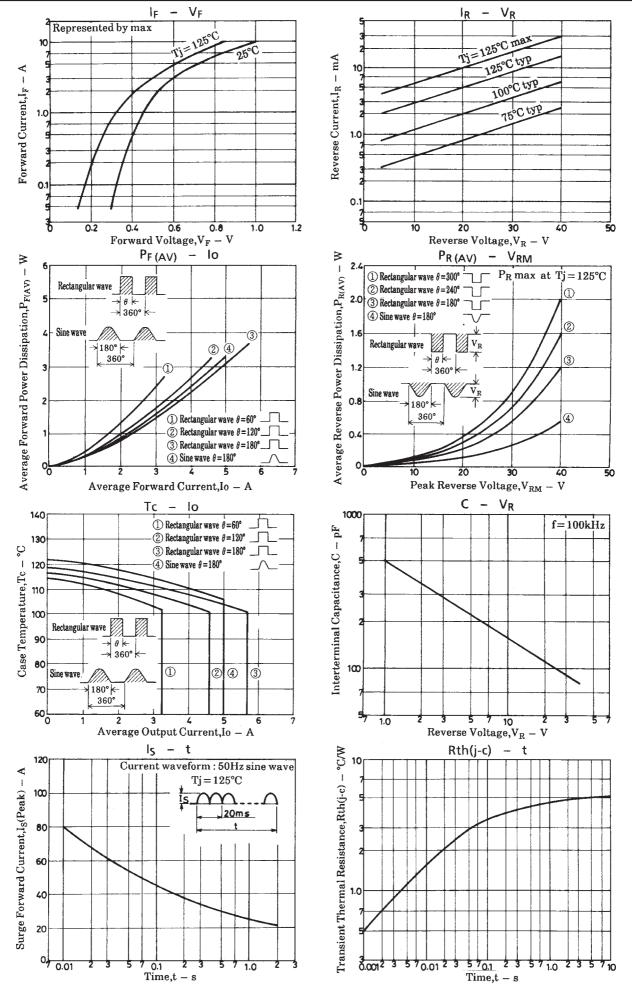
#### **Electrical Characteristics**

Parameter	Symbol	Conditons		Ratings		
	Symbol		min	typ	max	Unit
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =1mA, Tj=25°C, *	40			V
Forward Voltage	VF	I <sub>F</sub> =2.5A, Tj=25°C, *			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =20V, Tj=25°C, *			0.1	mA
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C, *		160		pF
Thermal Resistance	Rth(j-c)	Junction-Case:Smoothed DC			5.0	°C/W

Note\*:Value per element

#### **Electrical Connection**





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