

# **SB20-18**

Schottky Barrier Diode (Twin Type - Cathode Common)

# 80V, 2A Rectifier

## **Applications**

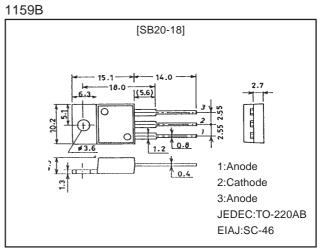
• High frequency rectification (switching regulators, converters, choppers).

### **Features**

- · Low forward voltage ( $V_F$  max=0.85V).
- Fast reverse recovery time (trr max=35ns).
- · 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

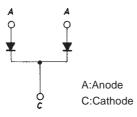
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		180	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		190	V
Average Output Current	lo	50Hz, resistive load, Tc=110°C	2	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	40	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

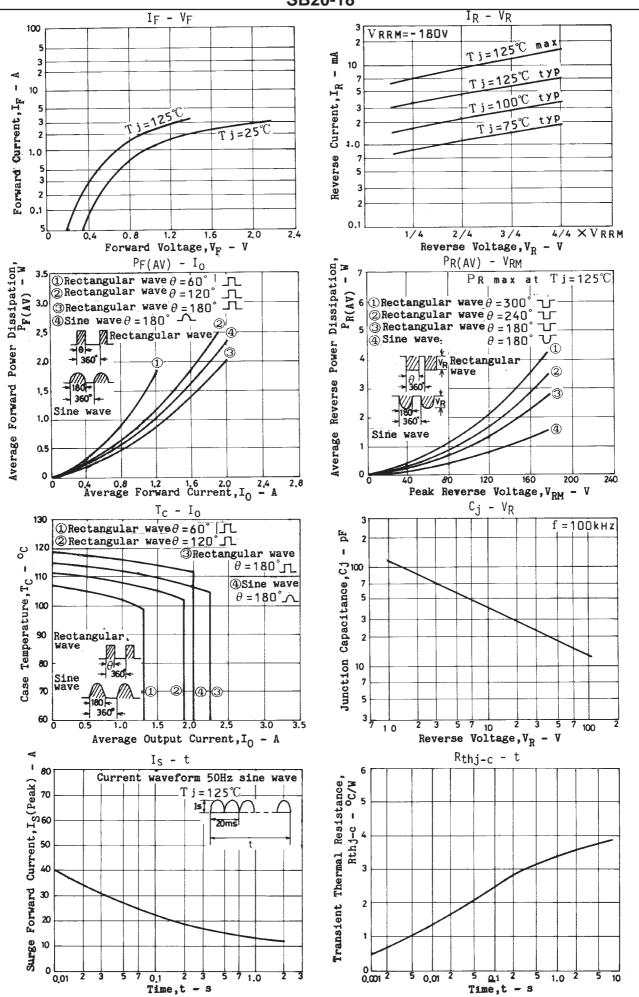
### **Electrical Characteristics at Ta = 25°C**

Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	VR	I <sub>R</sub> =1mA, Tj=25°C, *	180			V
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =0.8A, Tj=25°C, *			0.85	V
Reverse Current	IR	V <sub>R</sub> =90V, Tj=25°C, *			0.2	mA
Reverse Recovery Time	trr	I <sub>F</sub> =2A, Tj=25°C, *, -dI <sub>F</sub> /dt=10A/μs			35	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			4.0	°C/W

### Note\*: Value per element

### **Electrical Connection**





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