

## SB80-05H

Schottky Barrier Diode (Twin TYpe - Cathode Common)

# 50V, 8A Rectifier

## **Applications**

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

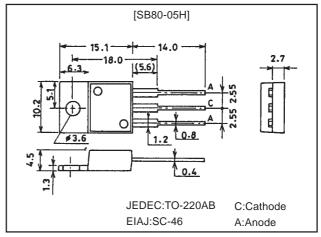
### **Features**

- · Low forward voltage ( $V_F$  max=0.55V).
- · Fast reverse recovery time (trr max=60ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

# **Package Dimensions**

unit:mm

1159A



## **Specifications**

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

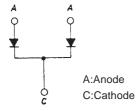
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		50	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		55	V
Average Output Current	lo	50Hz, resistive load, Tc=109°C	8	Α
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1 cycle	100	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

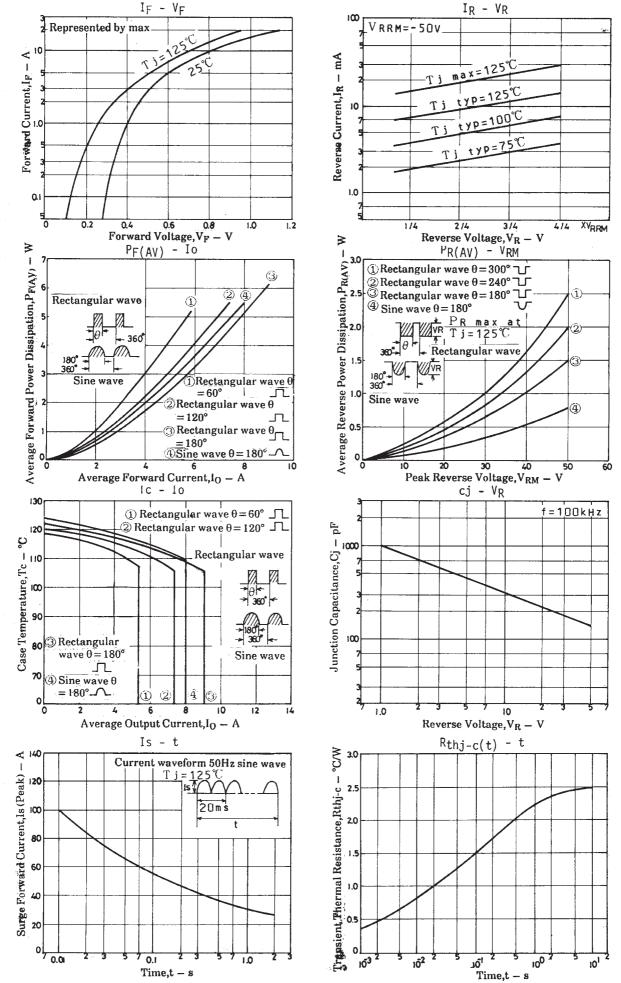
#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	VR	I <sub>R</sub> =2mA, Tj=25°C, *	50			V
Forward Voltage	٧F	I <sub>F</sub> =4A, Tj=25°C, *			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =25V, Tj=25°C, *			0.4	mA
Reverse Recovery Time	trr	I <sub>F</sub> =2A, Tj=25°C, *, -dI <sub>F</sub> /dt=10A/μs			60	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			2.5	°C/W

Note)\*:Value per element

#### **Electrical Connection**





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