

# SANYO Semiconductors DATA SHEET

SB80-05H Schottky Barrier Diode (Twin Type · Cathode Common) 50V, 8A Rectifier

# **Applications**

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

## **Features**

- Low forward voltage (VF max=0.55V).
- Short reverse recovery time (t<sub>rr</sub> max=60ns).
- Low switching noise.
- · Low leakage current and high reliability due to reliable planar structure.

# 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	lo	50Hz resistive load, Tc=109°C	8	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	100	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

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

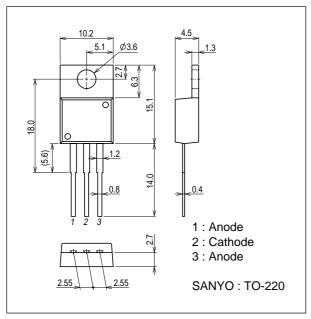
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	VR	I <sub>R</sub> =2mA, Tj=25°C *	50			V
Forward Voltage	٧F	IF=4A, Tj=25°C *			0.55	V
Reverse Current	IR	V <sub>R</sub> =25V, Tj=25°C *			0.4	mA
Reverse Recovery Time	t <sub>rr</sub>	IF=2A, Tj=25°C, -dIF / dt=10A / μs *			60	ns
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			2.5	°C / W

\* : Value per element

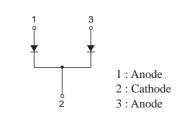
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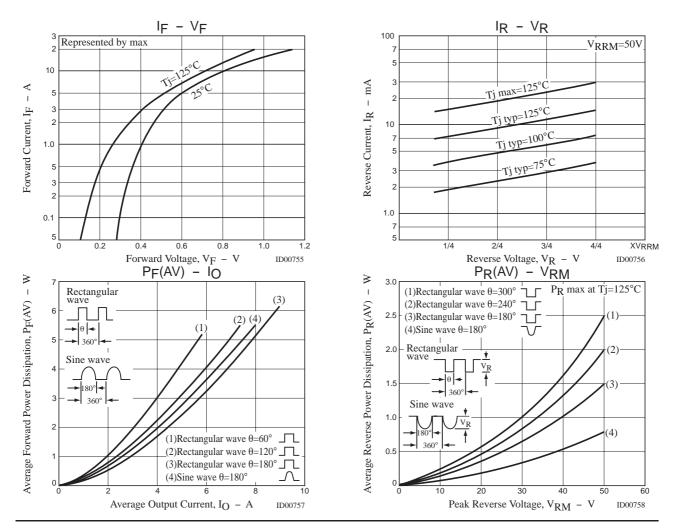
### **Package Dimensions**

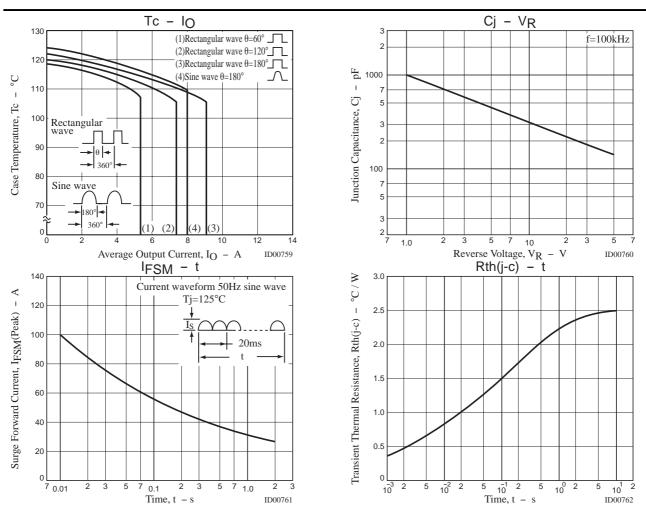
unit : mm (typ) 7507-003











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