

# SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

# SB80W06T ---

Schottky Barrier Diode (Twin Type • Cathode Common)

# 60V, 8A Rectifier

# Applications

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

# Features

- Low forward voltage (VF max=0.6V).
- Fast reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.
- Halogen free compliance.

## **Specifications**

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

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		60	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		66	V
Average Output Current	I0*2	50Hz resistive load, sine wave Tc=130°C	4	А
	I0*1	50Hz resistive load, sine wave Tc=83°C	8	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	40	А
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Note) \*1. Indicates the total value

\*2. Value per element

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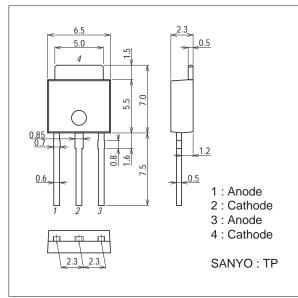
## Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	IR=1mA, Tj=25°C *2	60			V
Forward Voltage	VF	I <sub>F</sub> =3.0A, Tj=25°C *2			0.6	V
Reverse Current	IR	V <sub>R</sub> =30V, Tj=25°C *2			0.1	mA
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C *2		130		рF
Transient Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC		6		°C / W

Note) \*2. Value per element

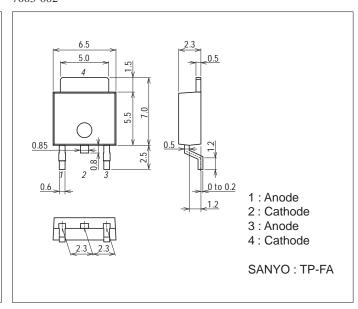
#### Package Dimensions

unit : mm (typ) 7518-001

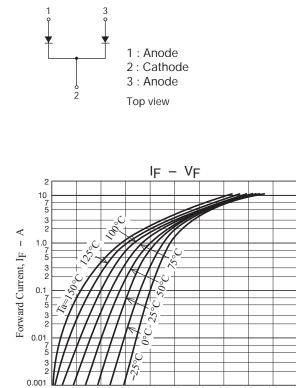


## Package Dimensions

unit : mm (typ) 7003-002



#### **Electrical Connection**

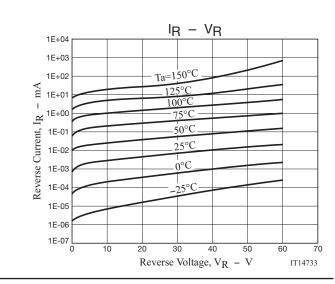


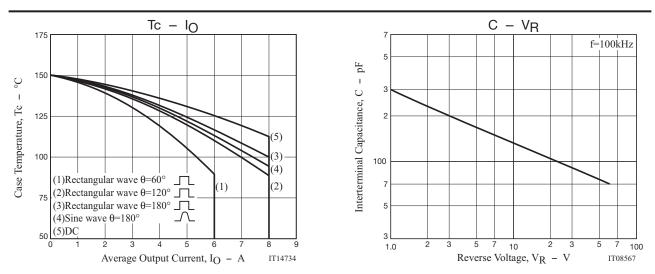
Forward Voltage,  $V_F - V$ 

IT14732

0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

0.1





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