



SANYO Semiconductors

## DATA SHEET

# SB1003M

 — Schottky Barrier Diode  

## 30V, 1A Rectifier

### Applications

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

### Features

- Low Switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.
- Ultrasmall package permitting SB1003M applied sets to be made small and slim.

### Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	IO		1	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	A
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	
Reverse Voltage	VR	IR=200μA	30			V
Forward Voltage	VF	IF=1A			0.55	V
Reverse Current	IR	VR=15V			15	μA
Interterminal Capacitance	C	VR=10V, f=1MHz		27		pF
Reverse Recovery Time	trr	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm <sup>2</sup> X0.8mm)		138		°C / W

Marking : SB

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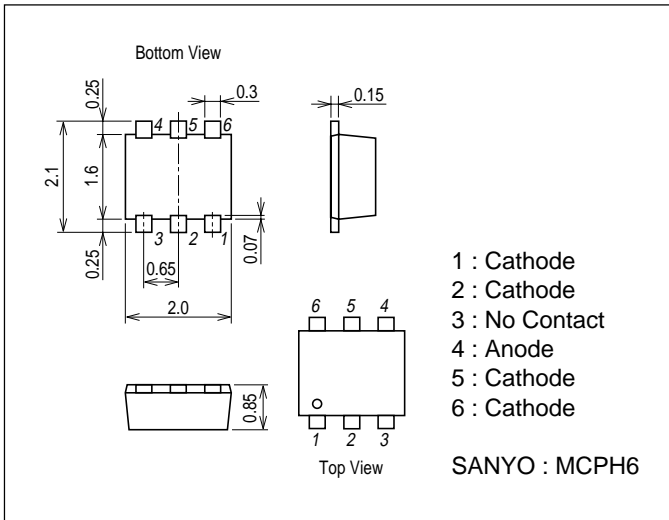
**SANYO Electric Co.,Ltd. Semiconductor Company**

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

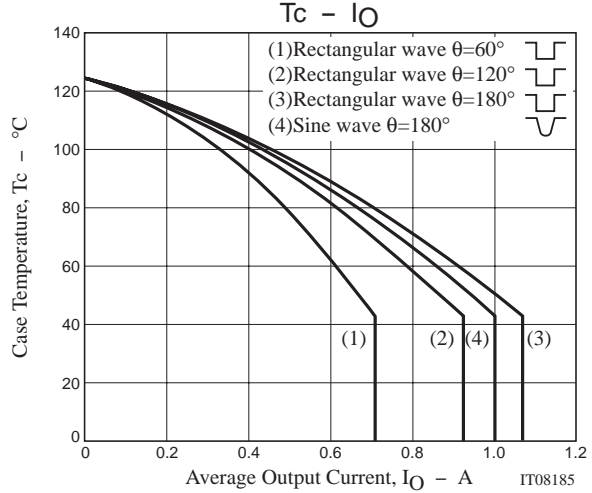
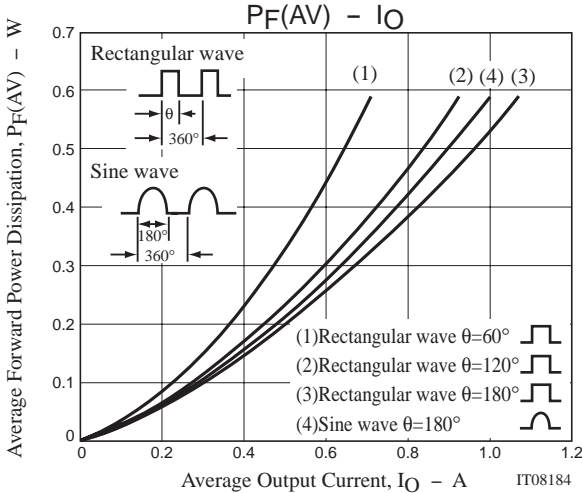
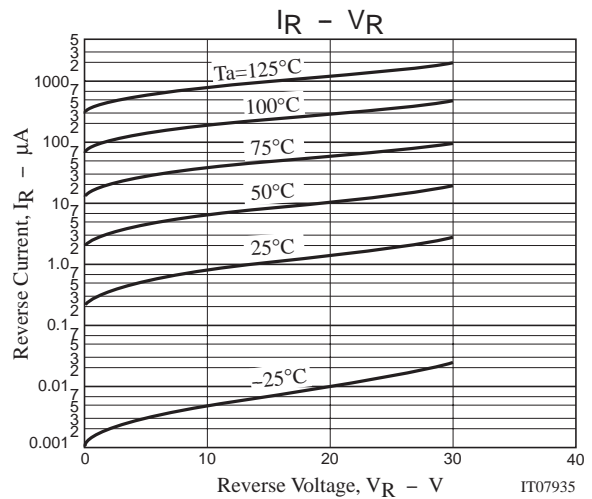
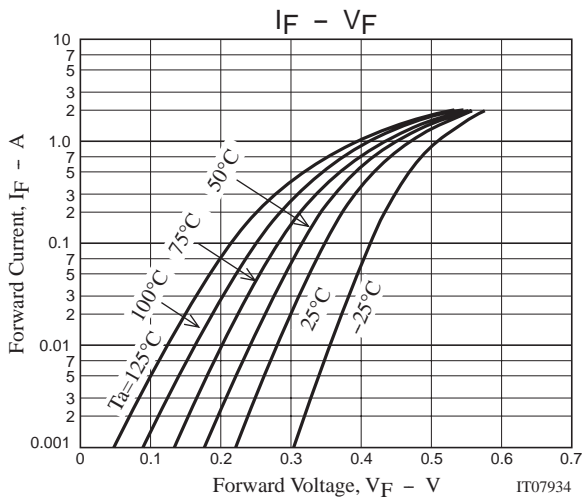
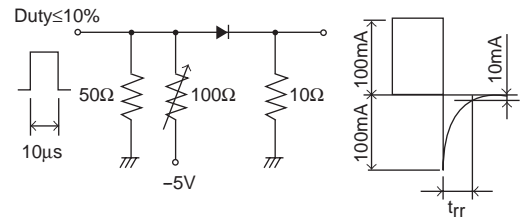
# SB1003M

## Package Dimensions

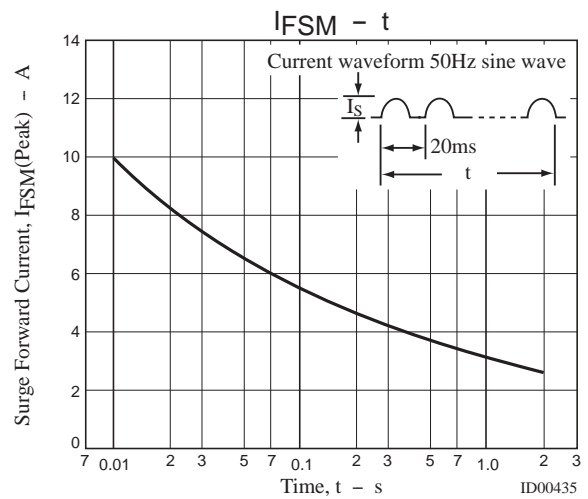
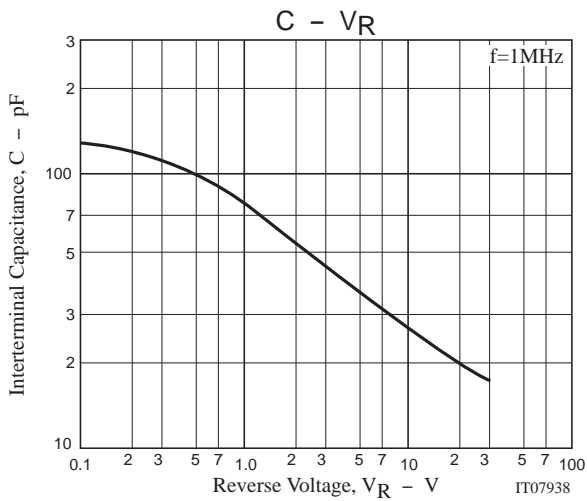
unit : mm  
7022-005



## t<sub>rr</sub> Test Circuit



# SB1003M



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