

# SANYO Semiconductors DATA SHEET

## SB005W03 — Schottky Barrier Diode(Twin Type · Cathode Common) 30V, 50mA Rectifier

## **Applications**

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

#### **Features**

- Low forward voltage (VF max=0.55V).
- · Fast reverse recorvery time.
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

## **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		50	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	2	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

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

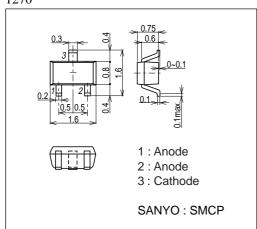
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Reverse Voltage	VR	I <sub>R</sub> =20μA	30			V
Forward Voltage	VF	IF=50mA			0.55	V
Reverse Current	IR	V <sub>R</sub> =15V			5	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		2.6		pF
Reverse Recovery Time	trr	IF=IR=10mA, See specified Test Circuit.			10	ns

Marking: LA

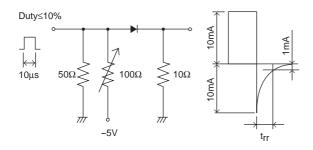
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## **Package Dimensions**

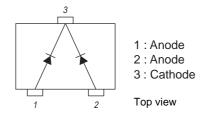
unit : mmm 1270

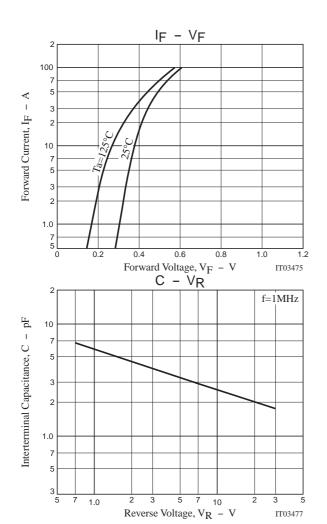


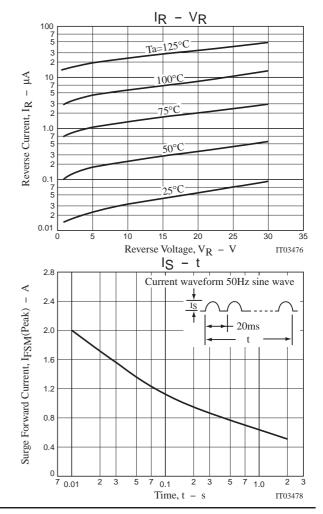
## trr Test Circuit



#### **Electrical Connection**







#### SB005W03

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