

# SB005W03

Shottky Barrier Diode (Twin Type · Cathode Common)

# 50V, 6A Rectifier

### **Applications**

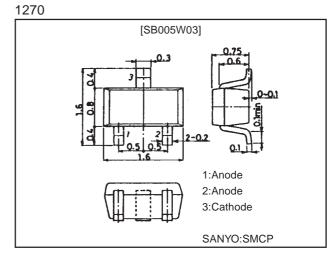
• High frequency rectification (switching regulators, converters, choppers).

### **Features**

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

## **Package Dimensions**

unit:mm



## **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, 1cycle	2	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

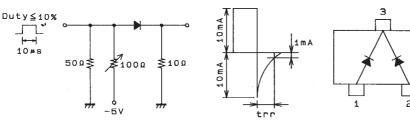
### **Electrical Characteristics at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	I <sub>R</sub> =20µA	30			V
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =50mA			0.55	V
Reverse Current	۱ <sub>R</sub>	V <sub>R</sub> =15V			5	μA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		2.6		pF
Reverse Recorvery Time	trr	I <sub>F</sub> =I <sub>R</sub> =10mA, See specified Test Circuit			10	ns

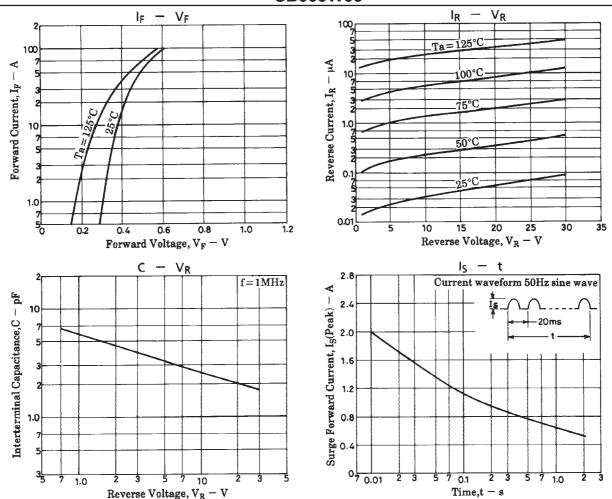
**Electrical Connection** 

#### · Marking:LA

### trr Test Circuit



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