

<b>SANYO</b>	No.3611A	SB05W05C
	Schottky Barrier Diode (Twin Type · Cathode Common)	
50V, 500mA Rectifier		

**Applications**

- Universal-use rectifier
- High frequency rectification (switching regulators, converters, choppers)

**Features**

- Low forward voltage ( $V_F \text{ max} = 0.55\text{V}$ )
- Fast reverse recovery time ( $t_{rr} \text{ max} = 10\text{ns}$ )
- Low switching noise
- Low leakage current and high reliability due to highly reliable planar structure
- Small-sized package permitting applied sets to be compact and slim

**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$  (Value per element)**

			unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	50	V
Non-repetitive Peak Reverse Surge Voltage	$V_{RSM}$	55	V
Average Output Current	$I_o$	500	mA
Surge Forward Current	$I_{FSM}$	5	A
Junction Temperature	$T_j$	-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

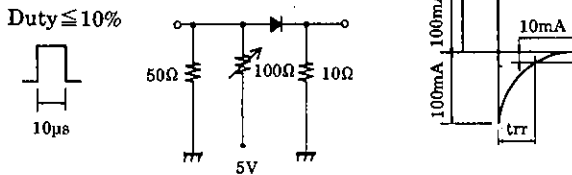
*Note: 50Hz sine wave, 1 cycle*

**Electrical Characteristics at  $T_a = 25^\circ\text{C}$  (Value per element)**

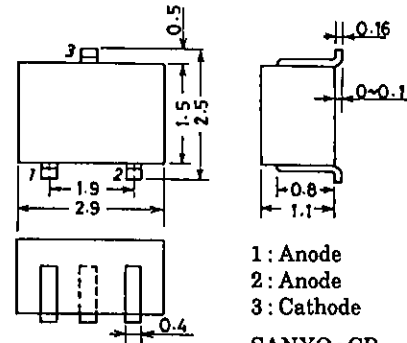
			min	typ	max	unit
Reverse Voltage	$V_R$	$I_R = 200\mu\text{A}$	50			V
Forward Voltage	$V_F$	$I_F = 500\text{mA}$			0.55	V
Reverse Current	$I_R$	$V_R = 25\text{V}$			50	$\mu\text{A}$
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		24		pF
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 100\text{mA}$ , See specified Test Circuit.			10	ns
Thermal Resistance	$R_{thj-a}$			420		$^\circ\text{C/W}$

Marking : P

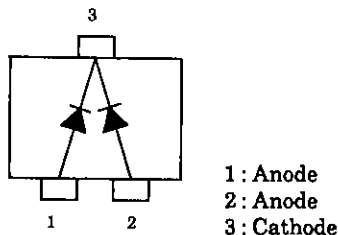
**$t_{rr}$  Test Circuit**



**Package Dimensions 1169A**  
(unit : mm)

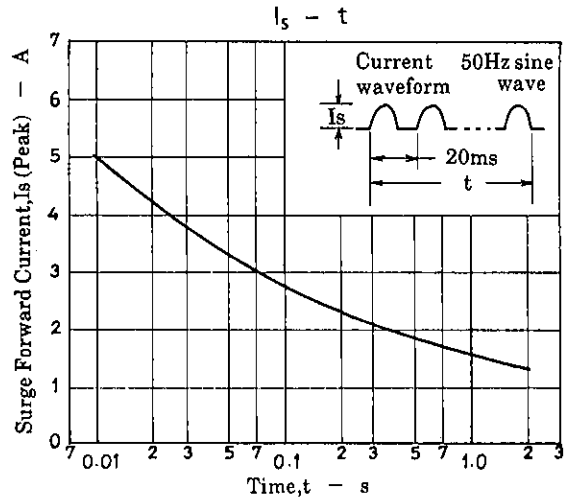
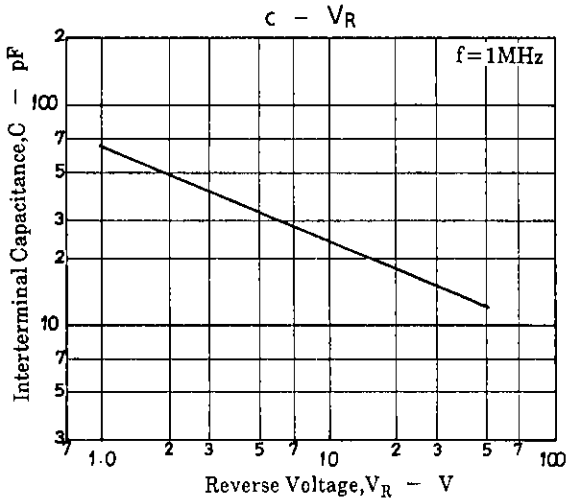
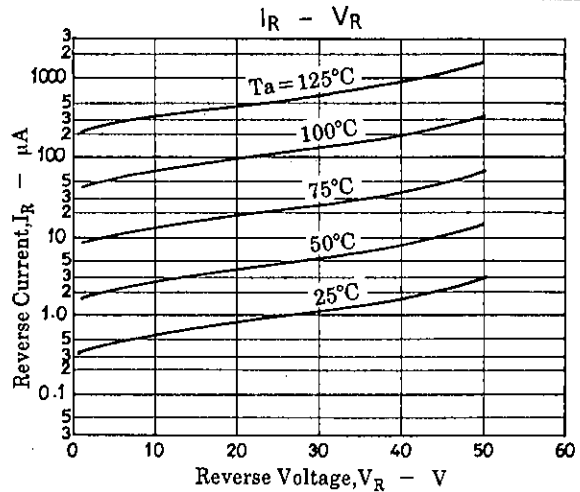
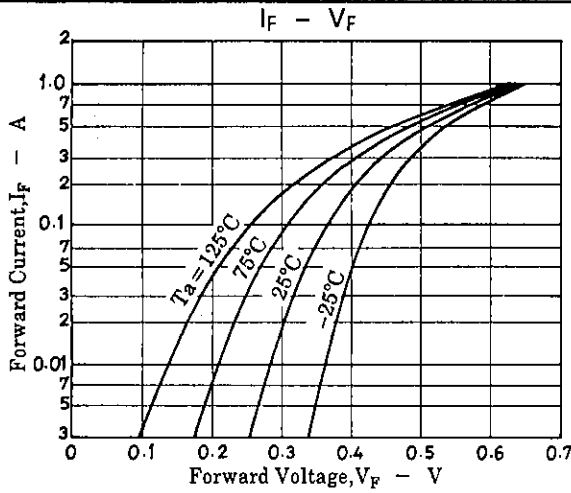


**Electrode Connection**



1 : Anode  
2 : Anode  
3 : Cathode  
SANYO : CP

SB05W05C



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