

<b>SANYO</b>	No.2936A	<b>SB007W03C</b>
		Schottky Barrier Diode (Twin Type · Cathode Common)
		<b>30V, 70mA Rectifier</b>

**Applications**

- 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

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

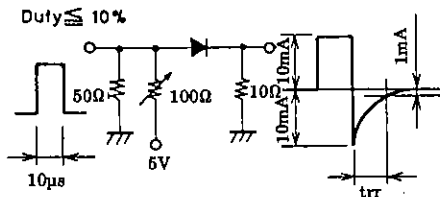
			unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
	Nonrepetitive Peak Reverse	$V_{RSM}$	35 V
Surge Voltage			
Average Output Current	$I_O$	70	mA
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	2 A
Junction Temperature	$T_j$	-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

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

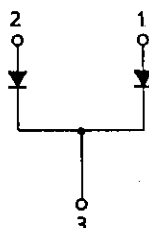
			min	typ	max	unit
Reverse Voltage	$V_R$	$I_R = 20\mu\text{A}$	30			V
Forward Voltage	$V_F$	$I_F = 70\text{mA}$			0.55	V
Reverse Current	$I_R$	$V_R = 15\text{V}$			5	$\mu\text{A}$
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		3.0		pF
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10\text{mA}$ , See specified Test Circuit.			10	ns
Thermal Resistance (1)	$R_{thj-a}$ (1)			620		$^\circ\text{C/W}$
Thermal Resistance (2)	$R_{thj-a}$ (2)	Mounted on Cu-foiled area of $16\text{mm}^2 \times 0.2\text{mm}$ on glass epoxy board		430		$^\circ\text{C/W}$

Marking : K

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



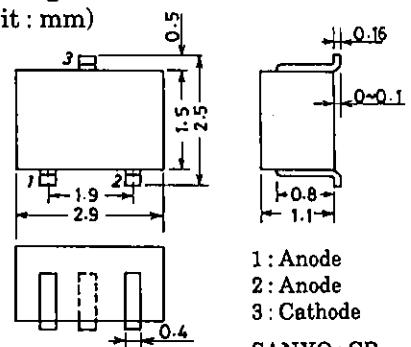
**Electrical Connection**



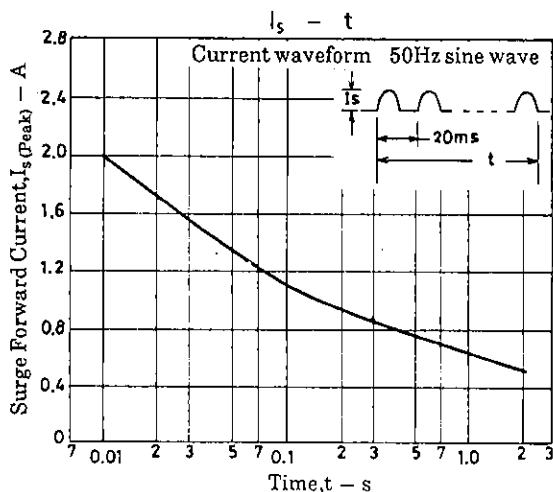
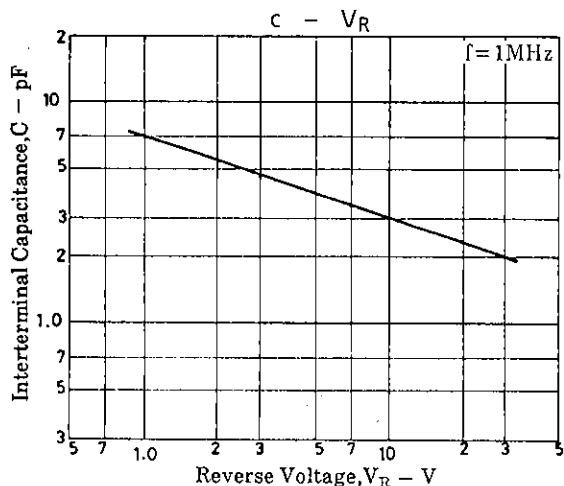
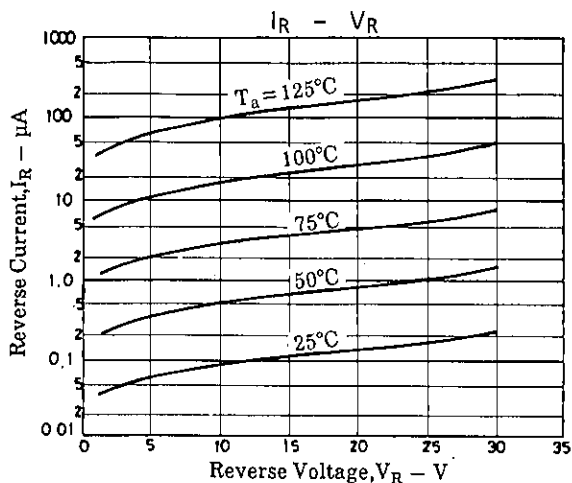
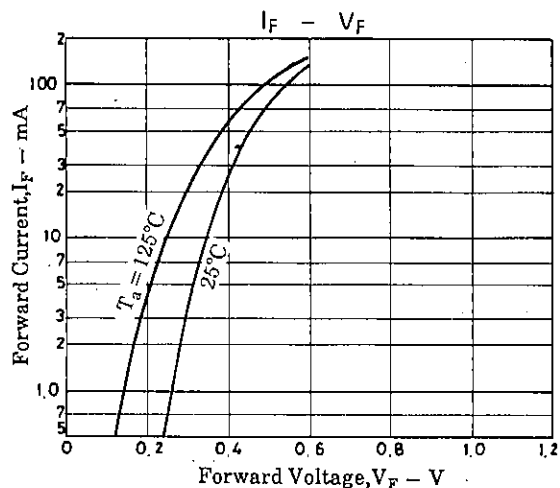
- 1 : Anode
- 2 : Anode
- 3 : Cathode

**Package Dimensions 1169A**

(unit : mm)



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



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