

SANYO	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)

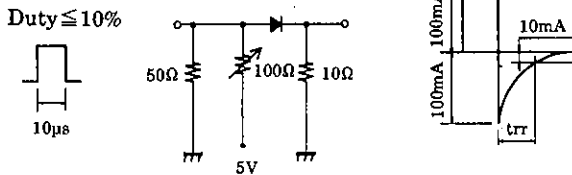
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	V
Non-repetitive Peak Reverse Surge Voltage	V_{RSM}	55	V
Average Output Current	I_o	500	mA
Surge Forward Current	I_{FSM} 50Hz sine wave, 1 cycle	5	A
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

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

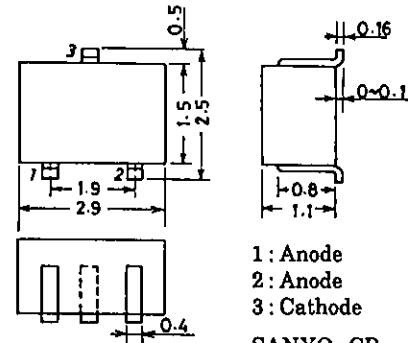
			min	typ	max	unit
Reverse Voltage	V_R $I_R = 200\mu\text{A}$	50				V
Forward Voltage	V_F $I_F = 500\text{mA}$				0.55	V
Reverse Current	I_R $V_R = 25\text{V}$				50	μA
Interterminal Capacitance	C $V_R = 10\text{V}, f = 1\text{MHz}$	24				pF
Reverse Recovery Time	t_{rr} $I_F = I_R = 100\text{mA}$, See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

Marking : P

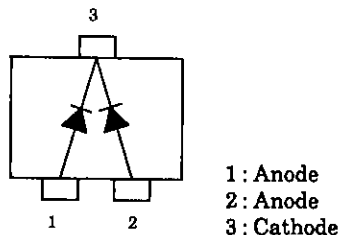
t_{rr} Test Circuit



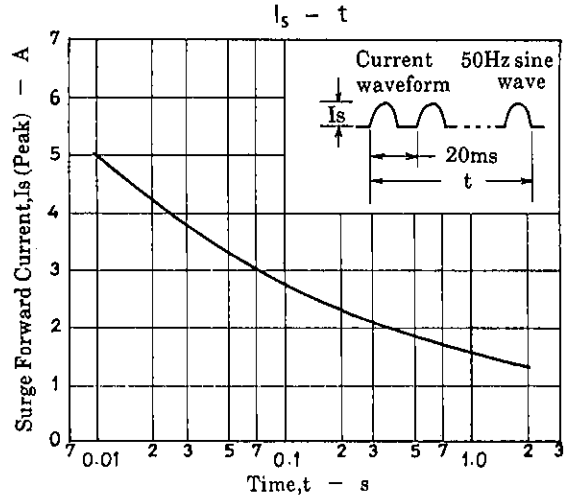
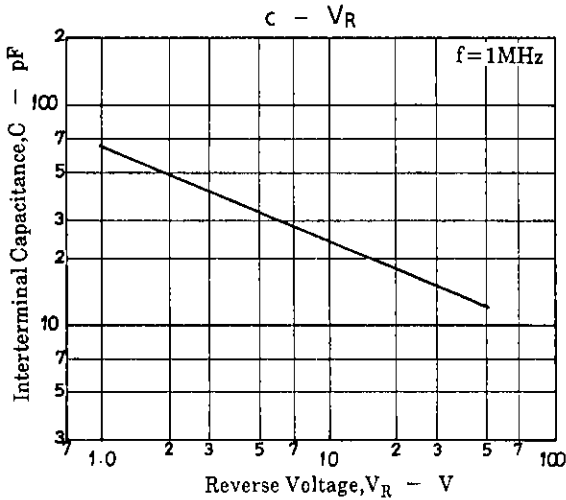
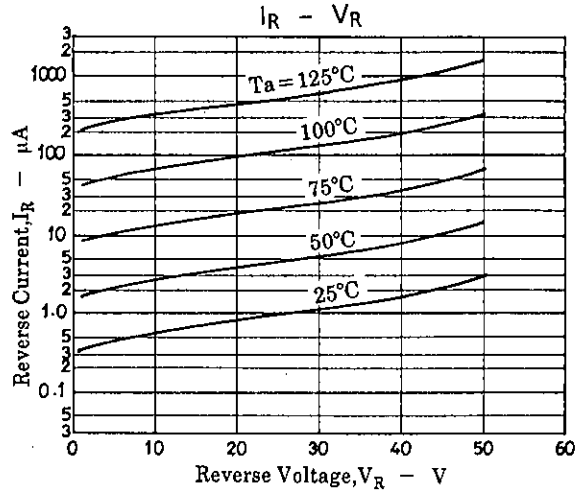
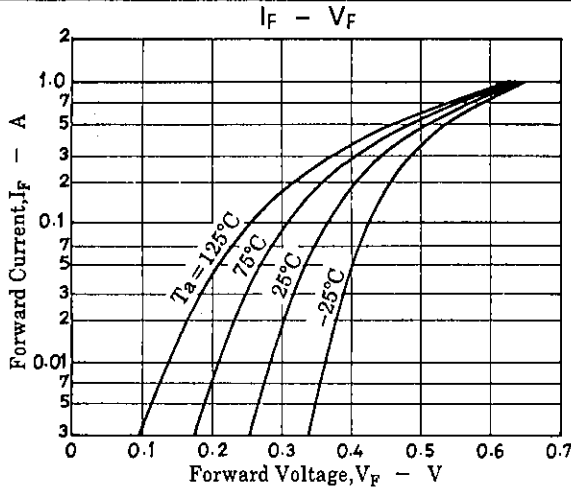
Package Dimensions 1169A
(unit : mm)



Electrode Connection



SB05W05C



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