

SANYO	No.2989A	SB01W05S
		Schottky Barrier Diode (Twin Type · Cathode Common)
50V, 100mA Rectifier		

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)

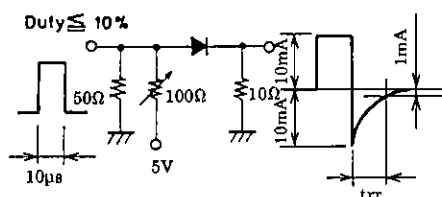
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}	55	V
Average Output Current	I_O	100	mA
Surge Forward Current	I_{FSM}	2	A
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

50Hz sine wave, 1 cycle

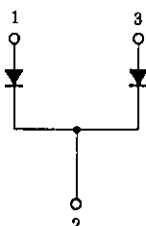
Electrical Characteristics at $T_a = 25^\circ\text{C}$ (Value per element)

			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 50\mu\text{A}$	50			V
Forward Voltage	V_F	$I_F = 100\text{mA}$			0.55	V
Reverse Current	I_R	$V_R = 25\text{V}$			15	μA
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		4.7		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10\text{mA}$, See specified Test Circuit.			10	ns
Thermal Resistance	R_{thj-a}			300		$^\circ\text{C/W}$

t_{rr} Test Circuit



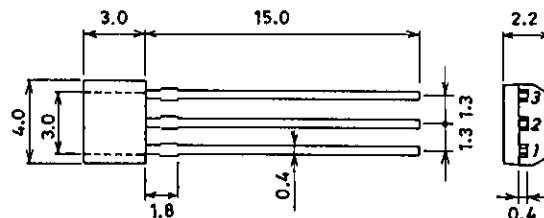
Electrical Connection



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

Package Dimensions 1129A

(unit : mm)

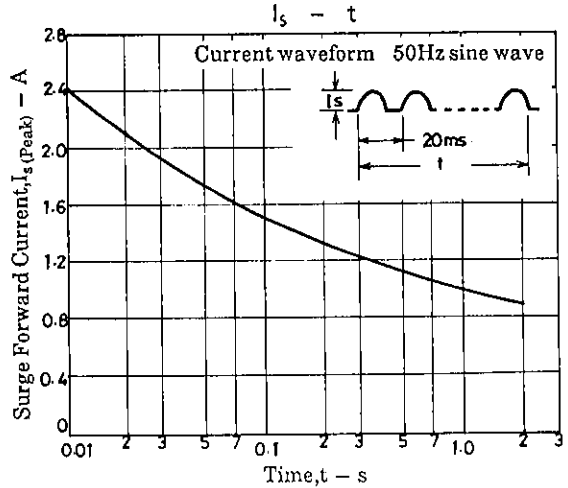
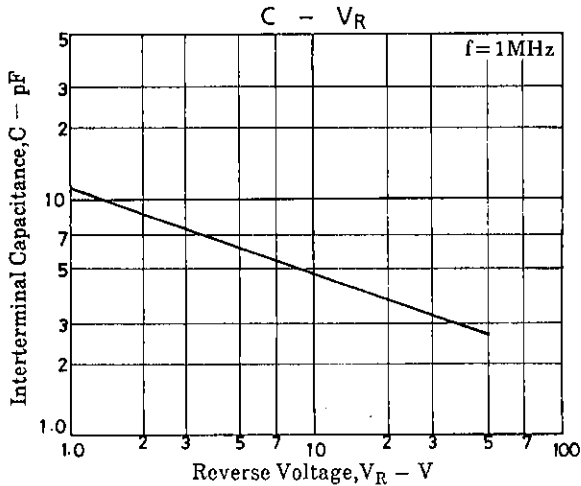
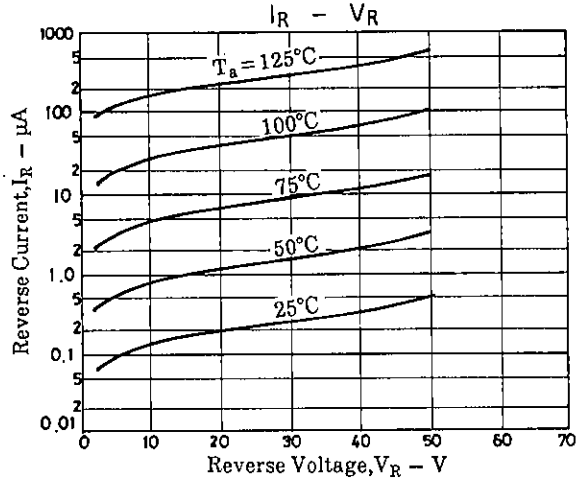
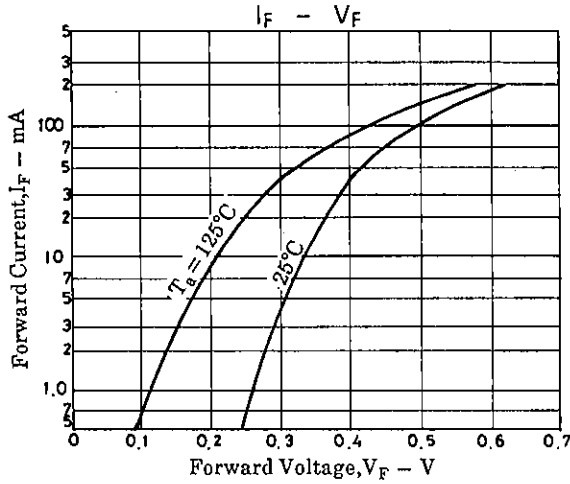


- 1: Anode
- 2: Cathode
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SANYO: SPA

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