

SANYO	No.2983A	SB02W03C
	Schottky Barrier Diode (Twin Type · Cathode Common)	
30V, 200mA 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 ($\text{trr max} = 10\text{ns}$)
- 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)

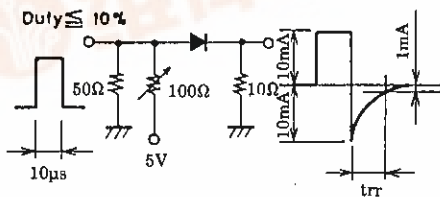
			unit
Repetitive Peak Reverse Voltage	V_{RRM}		30 V
	Nonrepetitive Peak Reverse	V_{RSM}	35 V
Surge Voltage			
Average Output Current	I_O		200 mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	2 A
Junction Temperature	T_j		-55 to +125 °C
Storage Temperature	T_{stg}		-55 to +125 °C

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

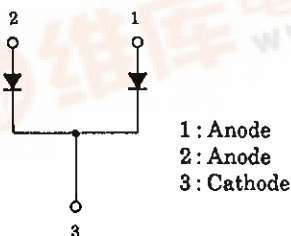
			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 50\mu\text{A}$	30			V
Forward Voltage	V_F	$I_F = 200\text{mA}$			0.55	V
Reverse Current	I_R	$V_R = 15\text{V}$			15	μA
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		6.3		pF
Reverse Recovery Time	trr	$I_F = I_R = 10\text{mA}$, See specified Test Circuit.			10	ns
Thermal Resistance (1)	R_{thj-a} (1)			525		°C/W
Thermal Resistance (2)	R_{thj-a} (2)	Mounted on Cu-foild area of $16\text{mm}^2 \times 0.2\text{mm}$ on glass epoxy board		380		°C/W

Marking : L

trr Test Circuit

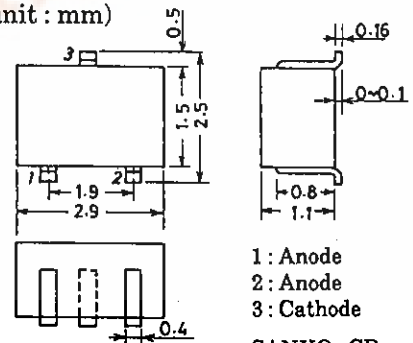


Electrical Connection

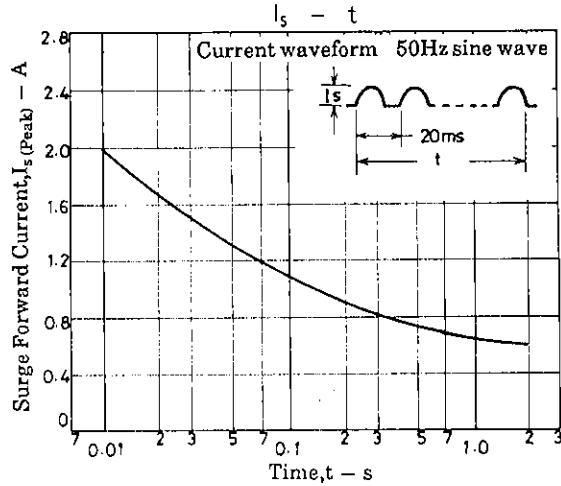
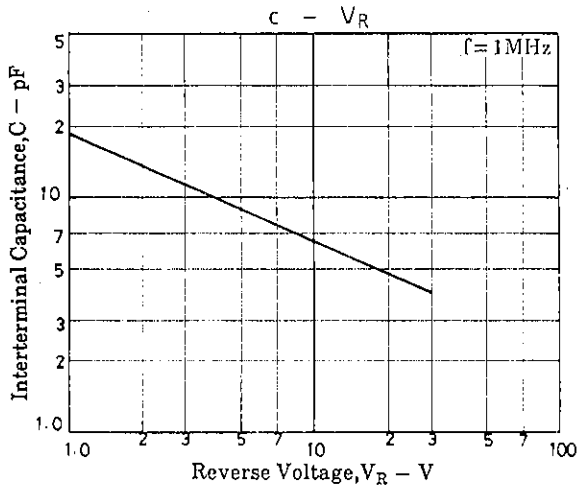
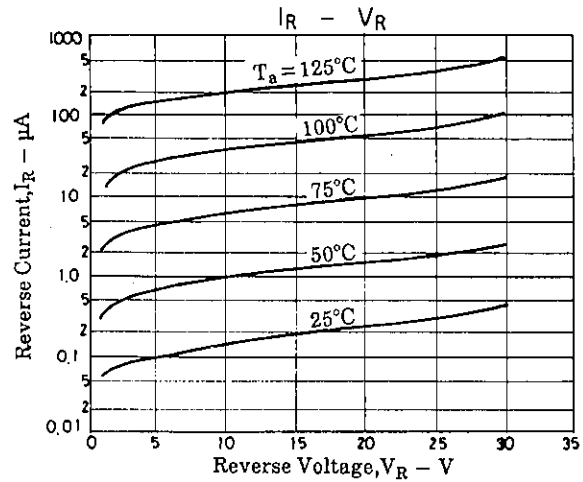
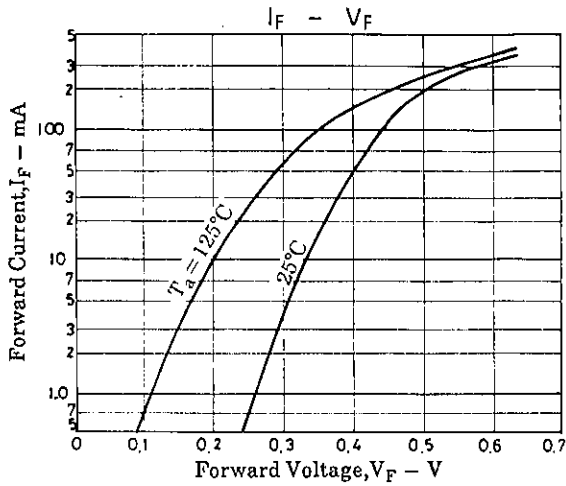


Package Dimensions 1169A

(unit : mm)



SB02W03C



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