

**SB02W03S**

Schottky Barrier Diode (Twin Type · Cathode Common)

**30V, 200mA Rectifier****Applications**

- High frequency rectification (switching regulators, converters, choppers).

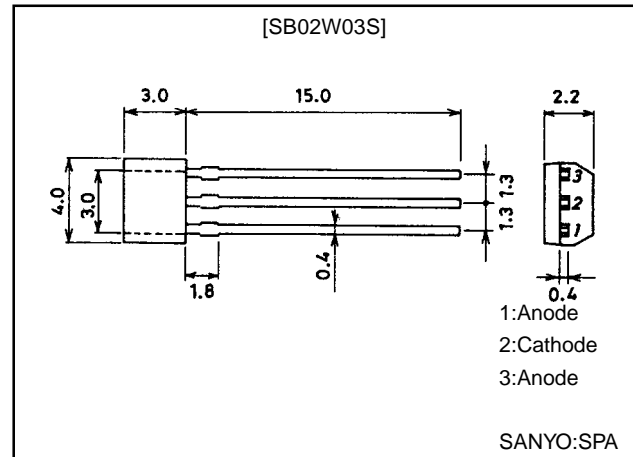
**Features**

- Low forward voltage ( $V_F$  max=0.55V).
- Fast reverse recovery time ( $t_{rr}$  max=10ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

**Package Dimensions**

unit:mm

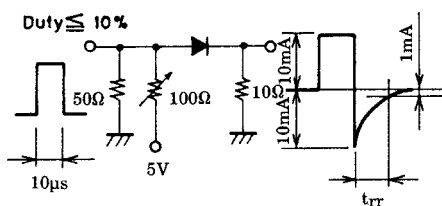
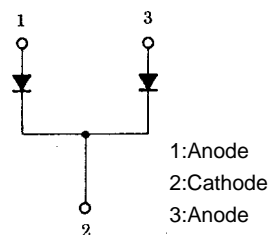
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**Specifications****Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$  (Value per element)**

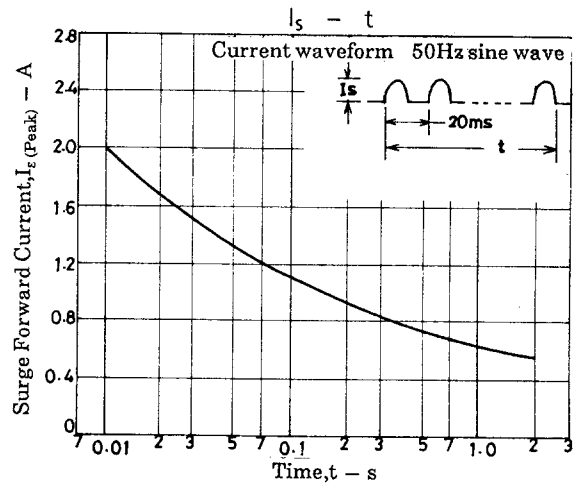
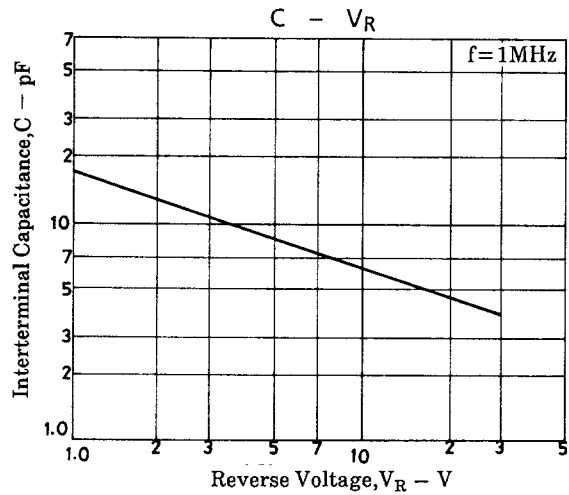
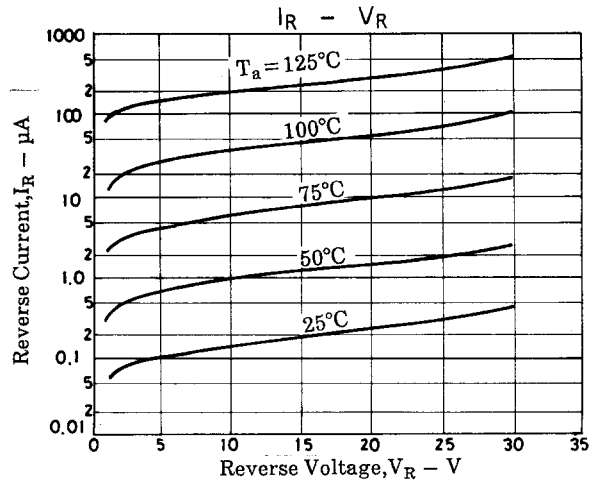
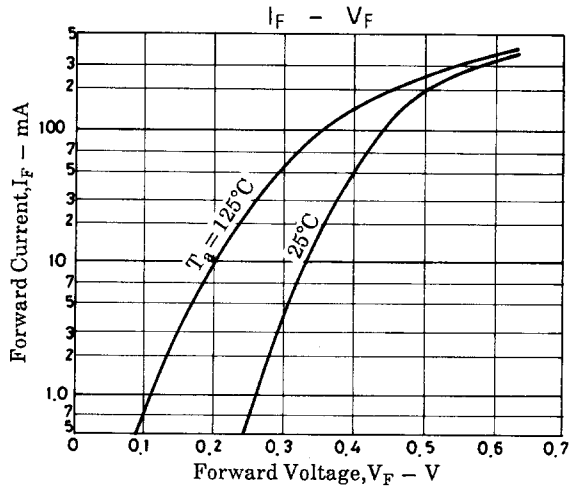
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		30	V
Non-repetitive Peak Reverse Surge Voltage	$V_{RSM}$		35	V
Average Output Current	$I_O$		200	mA
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	2	A
Junction Temperature	$T_J$		-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
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	$\mu\text{A}$
Interterminal Capacitance	C	$V_R=10\text{V}$ , $f=1\text{MHz}$		6.6		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=10\text{mA}$ , See specified Test Circuit			10	ns
Thermal Resistance	$R_{th(j-a)}$			370		$^\circ\text{C/W}$

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

# SB02W03S



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