

<b>SANYO</b>	No.2938A	<b>SB007W03Q</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
- Ultrasmall-sized package permitting SB007W03Q-applied sets to be made small and slim

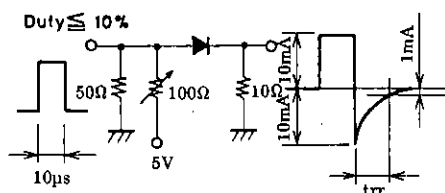
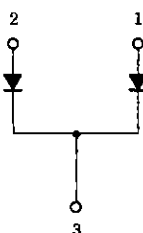
**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$  (Value per element)**

			unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$	35	V
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	$^\circ\text{C}$

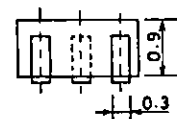
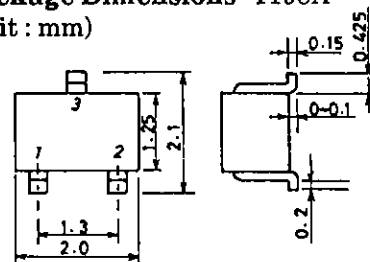
**Electrical Characteristics at  $T_a = 25^\circ\text{C}$  (Value per element)**

			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

Marking : K

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

1: Anode  
2: Anode  
3: Cathode

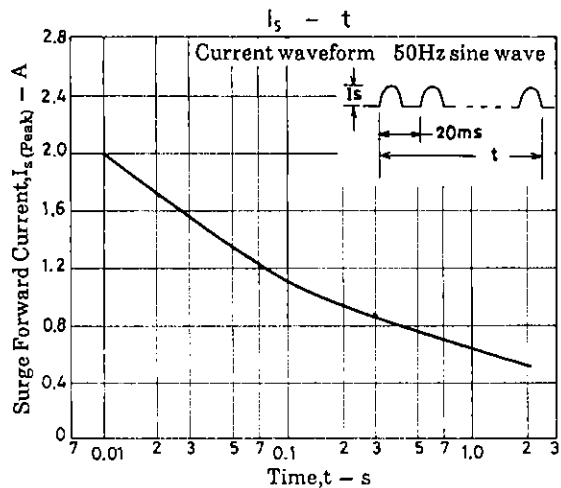
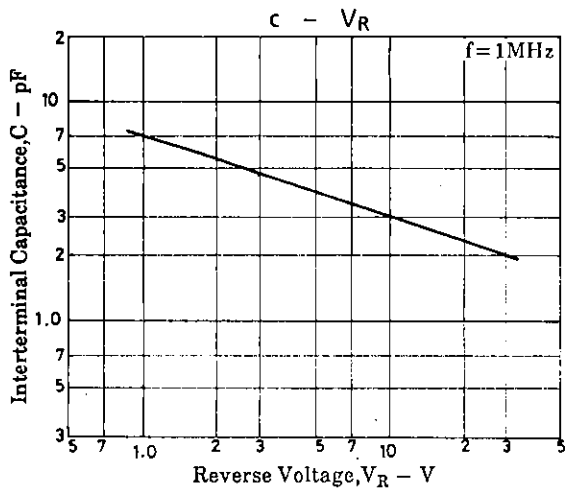
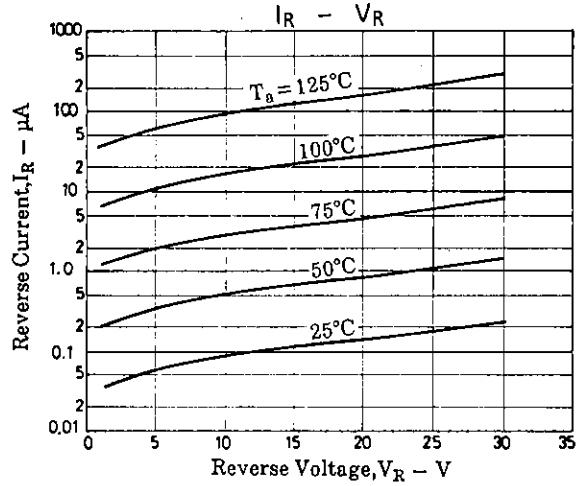
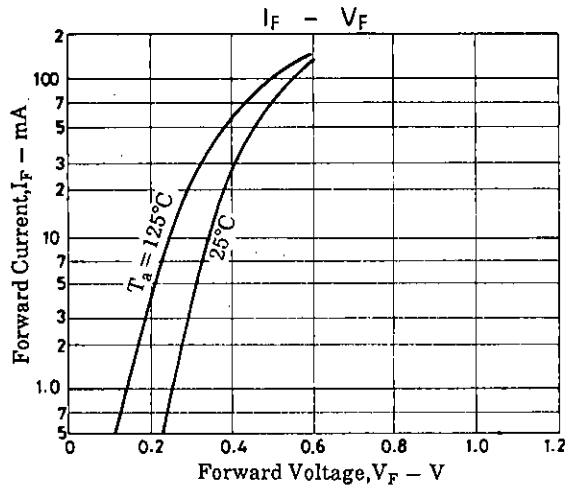
**Package Dimensions 1198A**  
(unit : mm)

1: Anode  
2: Anode  
3: Cathode

SANYO : MCP

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