

<b>SANYO</b>	No.2939A	<b>SB007-03Q</b>
		Schottky Barrier Diode
<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 SB007-03Q-applied sets to be compact and slim

**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$**

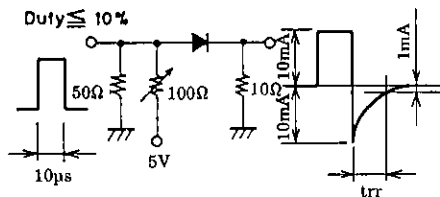
Repetitive Peak Reverse Voltage	$V_{RRM}$	30		unit
Nonrepetitive Peak Reverse	$V_{RSM}$	35		V
Surge Voltage				V
Average Output Current	$I_O$	70		mA
Surge Forward Current	$I_{FSM}$	2	50Hz sine wave, 1 cycle	A
Junction Temperature	$T_j$	-55 to +125		°C
Storage Temperature	$T_{stg}$	-55 to +125		°C

**Electrical Characteristics at  $T_a = 25^\circ\text{C}$**

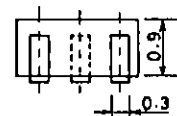
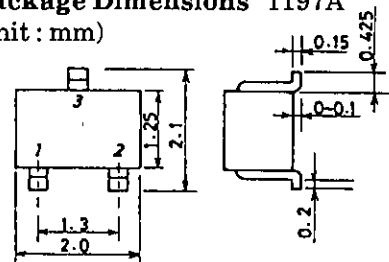
Reverse Voltage	$V_R$	$I_R = 20\mu\text{A}$	min	typ	max		unit
Forward Voltage	$V_F$	$I_F = 70\text{mA}$	30				V
Reverse Current	$I_R$	$V_R = 15\text{V}$			0.55		V
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		3.0			$\mu\text{A}$
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10\text{mA}$			10		pF
		See specified Test Circuit.					ns

Marking : G

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



**Package Dimensions 1197A**  
(unit : mm)

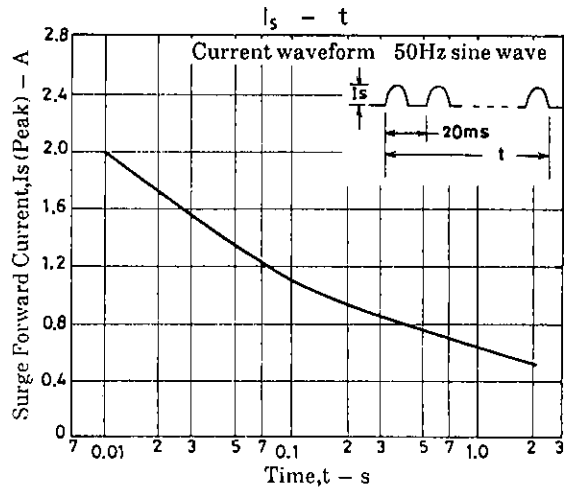
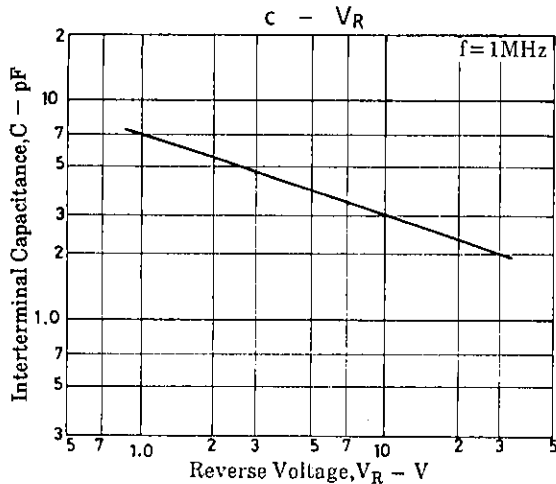
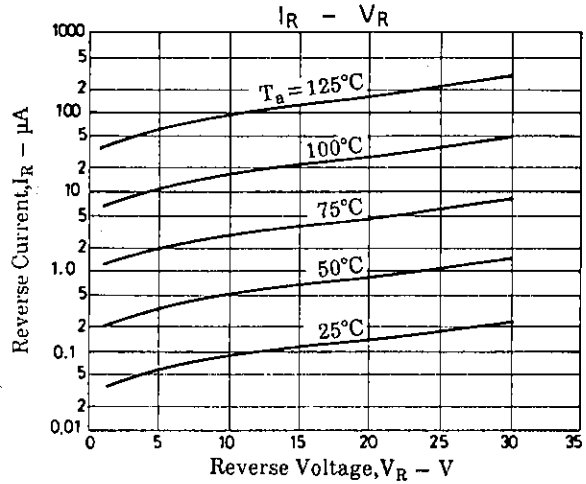
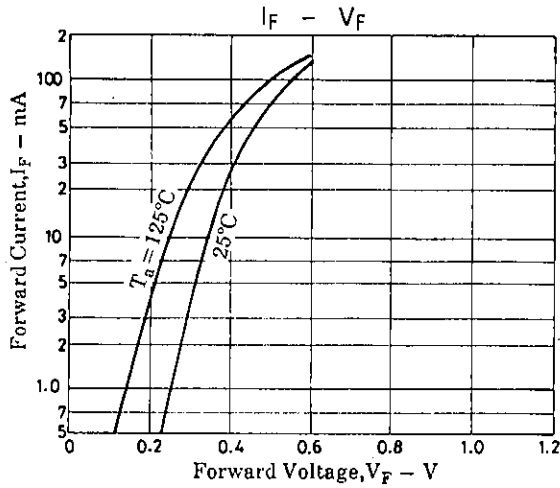


- 1 : Anode
- 2 : No Contact
- 3 : Cathode

SANYO : MCP

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