

<b>SANYO</b>	No.4169A	<b>SB007T03Q</b>
		Schottky Barrier Diode (Series Connection)  30V, 70mA Rectifier

**Applications**

- Universal-use rectifiers.
- 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.
- Series connection of 2 elements in an ultrasmall-sized package facilitates high-density mounting and permits SB007T03Q-applied equipment to be made smaller.

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

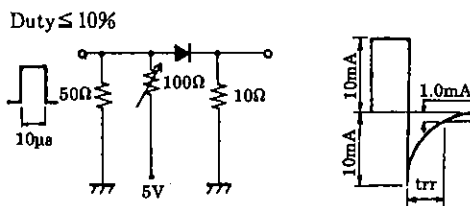
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V	unit
Non-repetitive Peak Reverse Surge Voltage	$V_{RSM}$	35	V	
Average Output Current	$I_o$	70	mA	
Surge Forward Current	$I_{FSM}$ 50Hz sine wave, 1 cycle	2	A	
Junction Temperature	$T_j$	-55 to +125	$^\circ\text{C}$	
Storage Temperature	$T_{stg}$	-55 to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

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

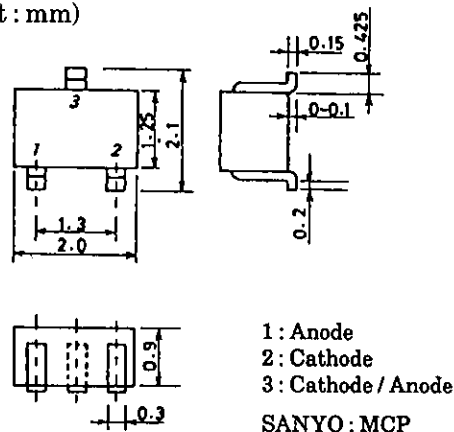
Reverse Voltage	$V_R$	$I_R = 20\mu\text{A}$	min	typ	max	unit
Forward Voltage	$V_F$	$I_F = 70\text{mA}$	30		0.55	V
Reverse Current	$I_R$	$V_R = 15\text{V}$			5	$\mu\text{A}$
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		3.0		pF
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10\text{mA}$ , See specified Test Circuit.			10	ns
Thermal Resistance	$R_{th(j-a)}$			650		$^\circ\text{C/W}$

Marking : N

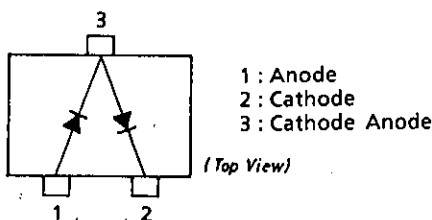
**$t_{rr}$  Test Circuit**

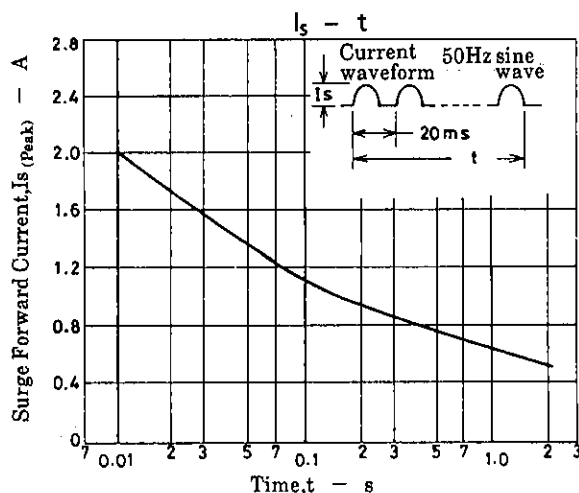
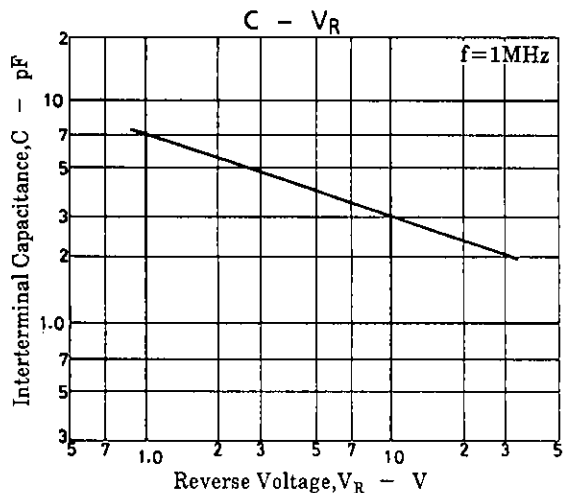
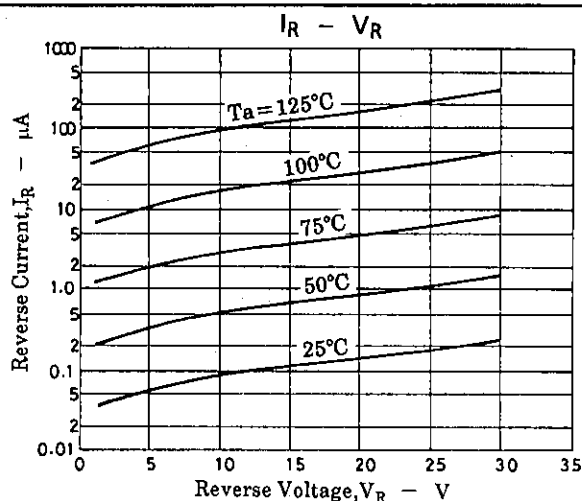
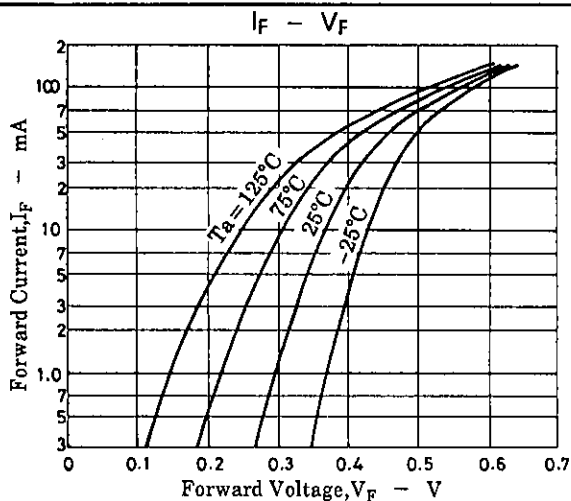


**Package Dimensions 1246A (unit : mm)**



**Electrical Connection**





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