

SANYO	No.4169A	SB007T03Q
		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)

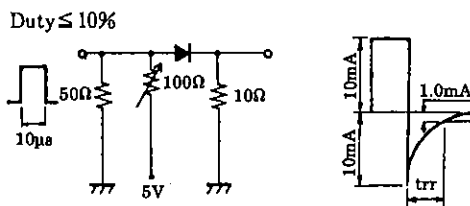
Repetitive Peak Reverse Voltage	V_{RRM}	30	V	unit
Non-repetitive Peak Reverse Surge Voltage	V_{RSM}	35	V	
Average Output Current	I_o	70	mA	
Surge Forward Current	I_{FSM} 50Hz sine wave, 1 cycle	2	A	
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$	
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$	

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

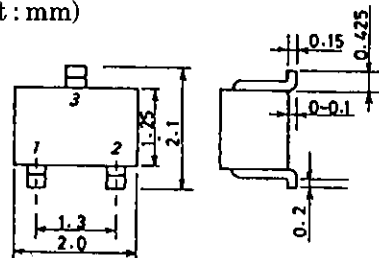
Reverse Voltage	V_R	$I_R = 20\mu\text{A}$	min	typ	max	unit
Forward Voltage	V_F	$I_F = 70\text{mA}$	30		0.55	V
Reverse Current	I_R	$V_R = 15\text{V}$			5	μA
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		3.0		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10\text{mA}$, See specified Test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

Marking : N

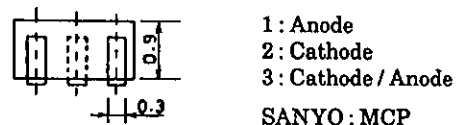
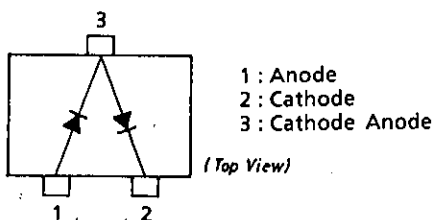
t_{rr} Test Circuit



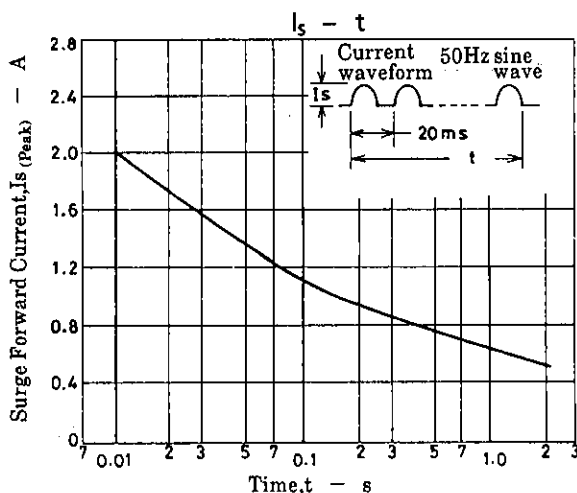
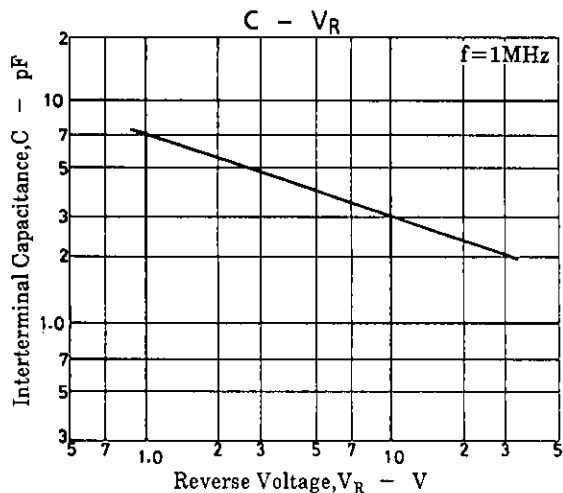
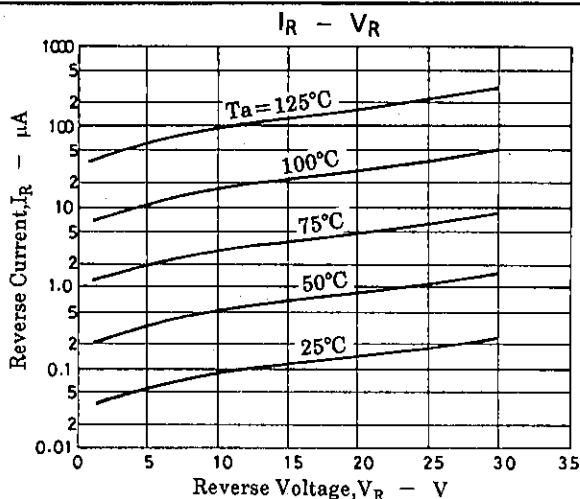
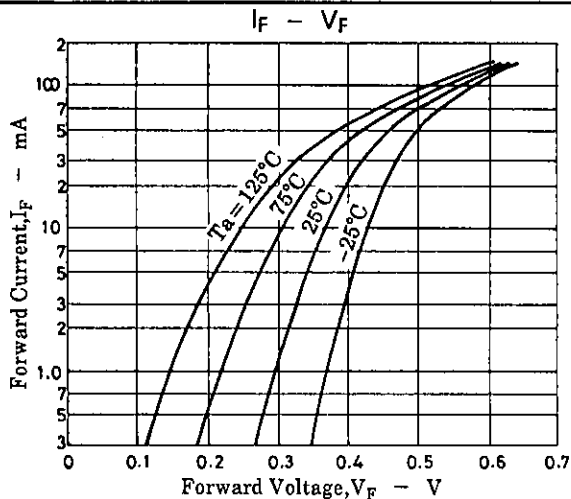
Package Dimensions 1246A (unit : mm)



Electrical Connection



1 : Anode
2 : Cathode
3 : Cathode / Anode
SANYO : MCP



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