



**SB07-03P**

## Shottky Barrier Diode

### 30V, 700mA Rectifier

## Applications

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

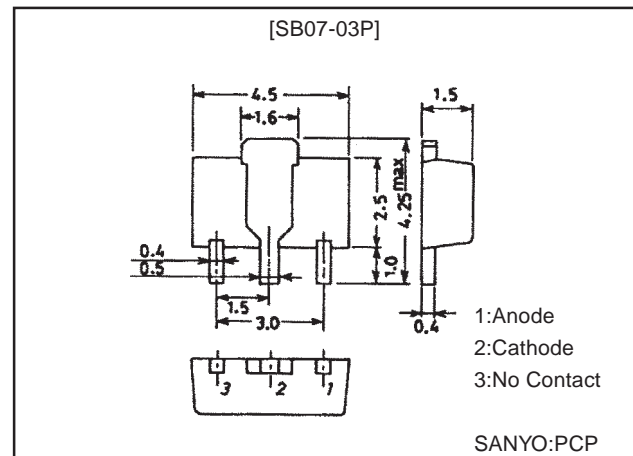
## Features

- 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.

## Package Dimensions

unit:mm

1163A



## Specifications

### Absolute Maximum Ratings at Ta = 25°C

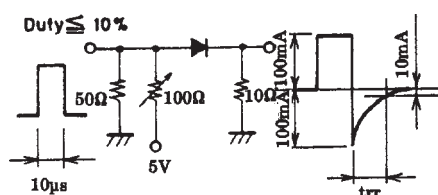
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		30	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$		35	V
Average Output Current	$I_O$		700	mA
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1cycle	5	A
Junction Temperature	$T_j$		-55 to +125	°C
Storage Temperature	$T_{stg}$		-55 to +125	°C

### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=300\mu A$	30			V
Forward Voltage	$V_F$	$I_F=700mA$			0.55	V
Reverse Current	$I_R$	$V_R=15V$			80	$\mu A$
Interterminal Capacitance	C	$V_R=10V$ , $f=1MHz$		26		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=100mA$ , See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a(1)			310		$^{\circ}C/W$
	Rthj-a(2)	Mounted on 250mm $\times$ 0.8mm ceramic board		120		$^{\circ}C/W$

- Marking:SD

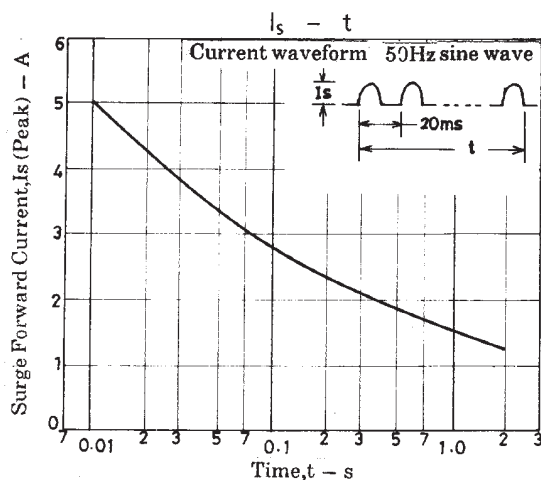
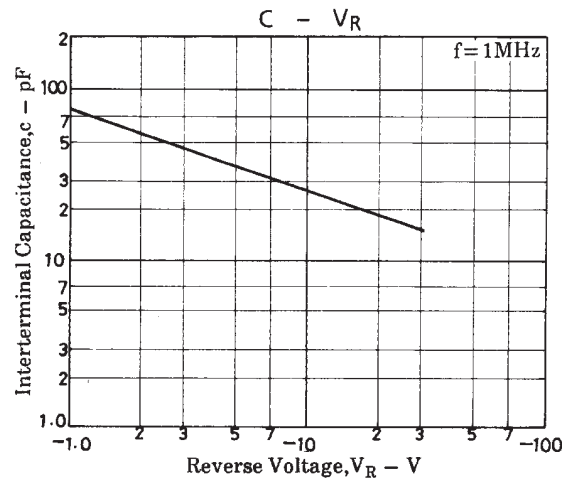
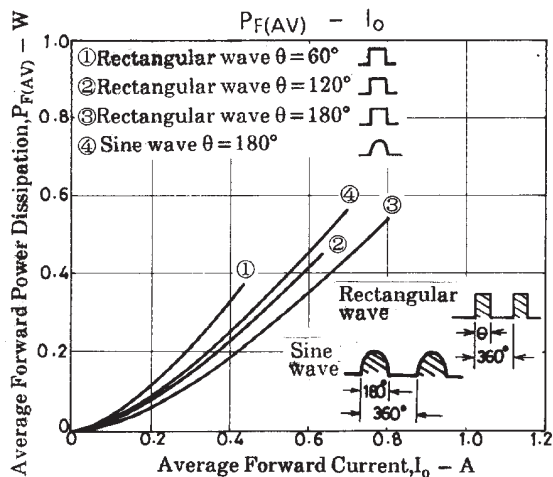
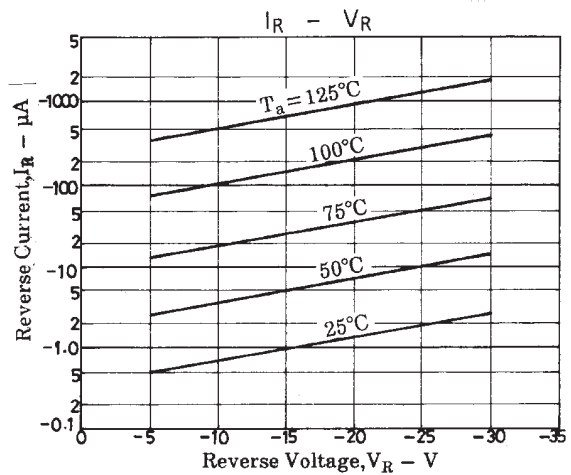
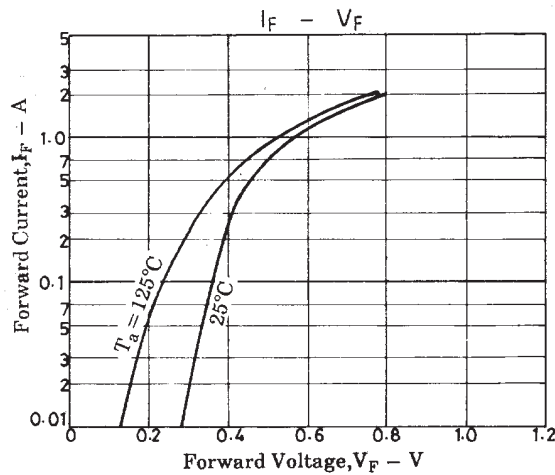
### ttr Test Circuit



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