

**SANYO****SB10-09P**

Schottky Barrier Diode

**90V, 1A Rectifier****Applications**

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

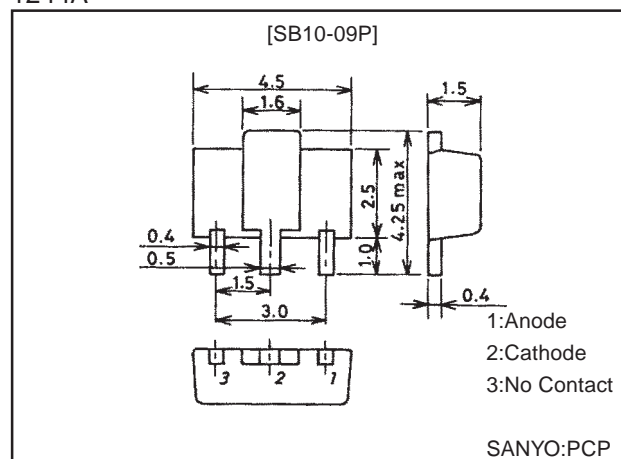
**Features**

- Low forward voltage ( $V_F$  max=0.7V).
- Fast reverse recovery time ( $t_{rr}$  max=20ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

**Package Dimensions**

unit:mm

1244A

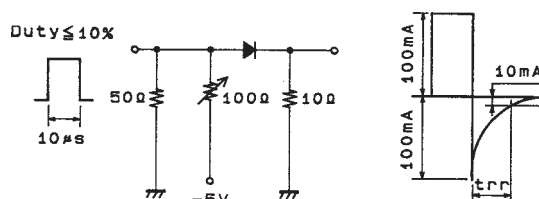
**Specifications****Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		90	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$		95	V
Average Output Current	$I_O$		1	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	5	A
Junction Temperature	$T_j$		-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

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

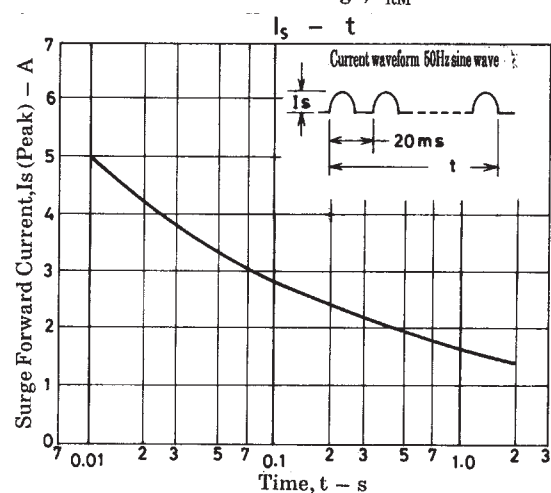
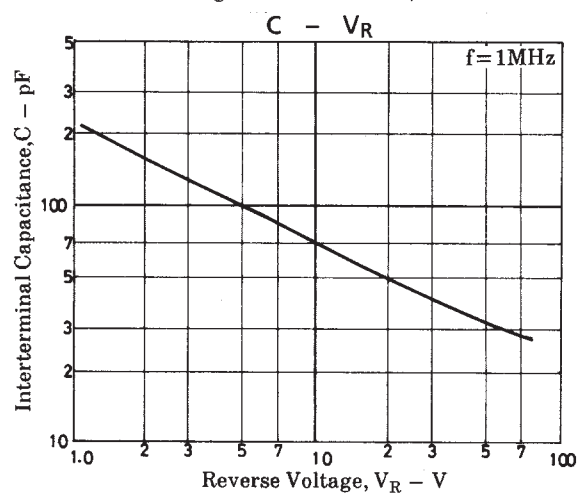
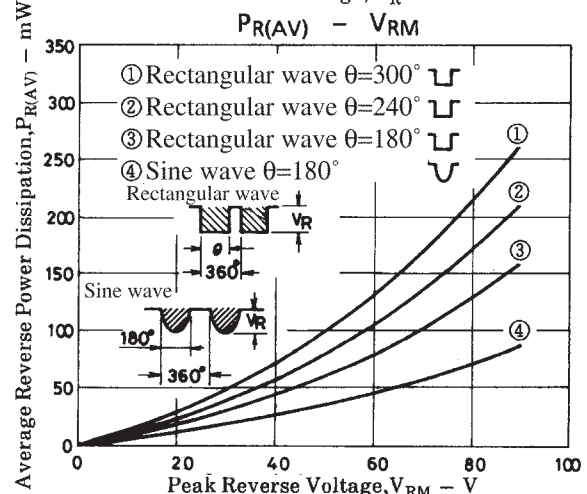
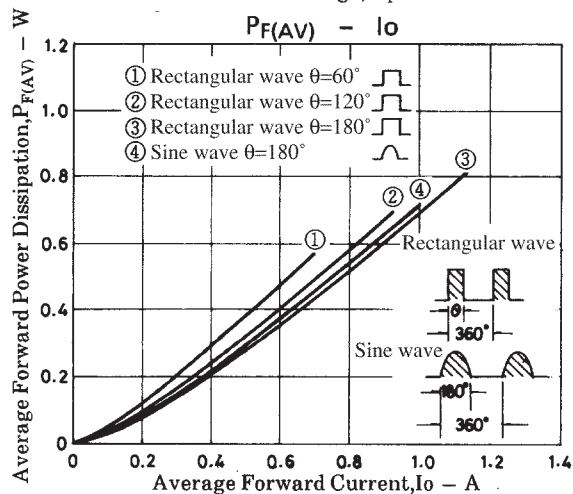
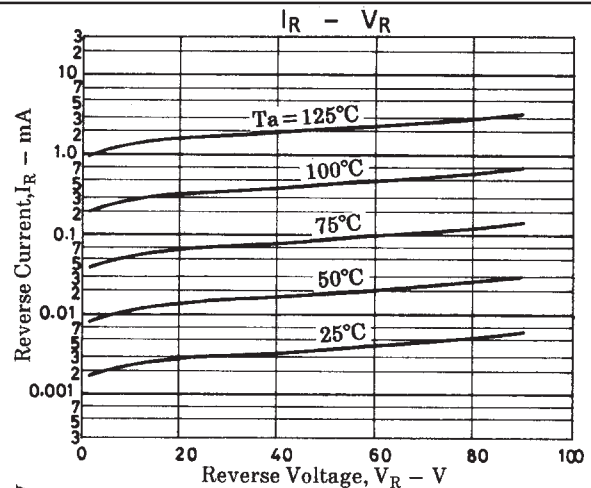
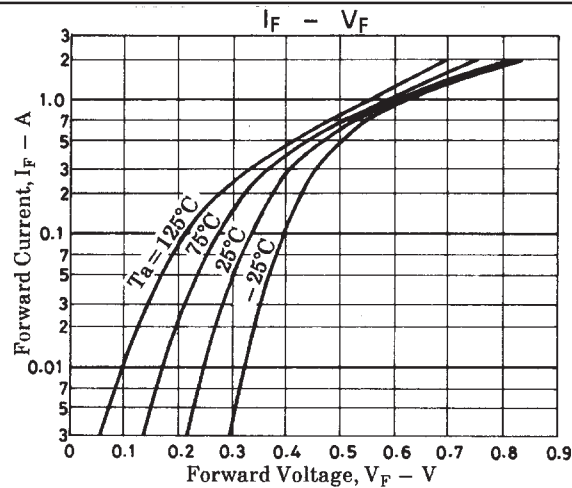
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=1\text{mA}$	90			V
Forward Voltage	$V_F$	$I_F=1\text{A}$			0.7	V
Reverse Current	$I_R$	$V_R=45\text{V}$			200	$\mu\text{A}$
Interterminal Capacitance	C	$V_R=10\text{V}$ , $f=1\text{MHz}$		70		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=100\text{mA}$ , See specified Test Circuit			20	ns
Thermal Resistance	Rthj-a (1)			280		$^\circ\text{C/W}$
	Rthj-a (2)	Mounted on 250mm <sup>2</sup> ×0.8mm ceramic board		100		$^\circ\text{C/W}$

Marking:SJ

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

**SANYO Electric Co.,Ltd. Semiconductor Business Headquarters**  
 TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

43098HA (KT)/42894YH (KOTO) 8-7191 No.4175-1/2



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