



SB10-09P

Schottky Barrier Diode

90V, 1A Rectifier

Applications

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

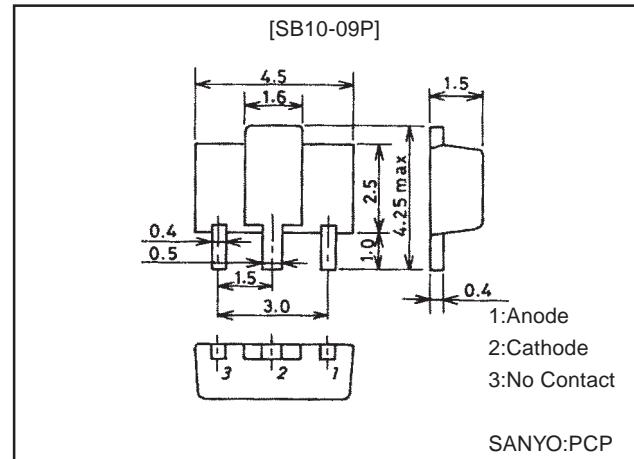
Features

- 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 $T_a = 25^\circ\text{C}$

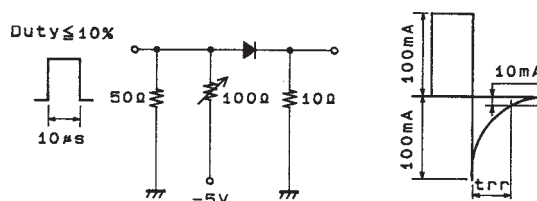
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		90	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		95	V
Average Output Current	I_O		1	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	5	A
Junction Temperature	T_j		-55 to +125	$^\circ\text{C}$
Storage Temperature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

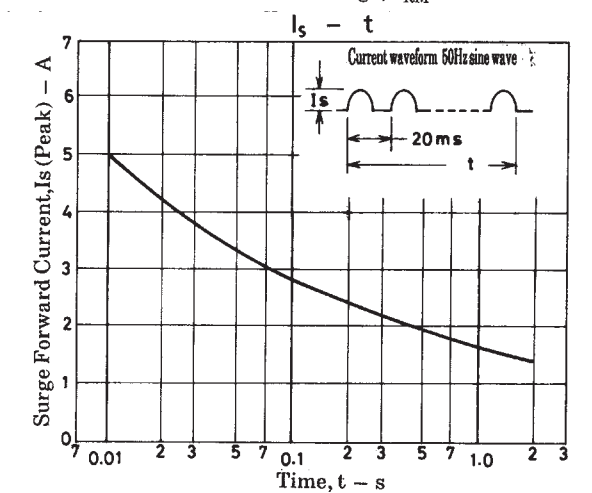
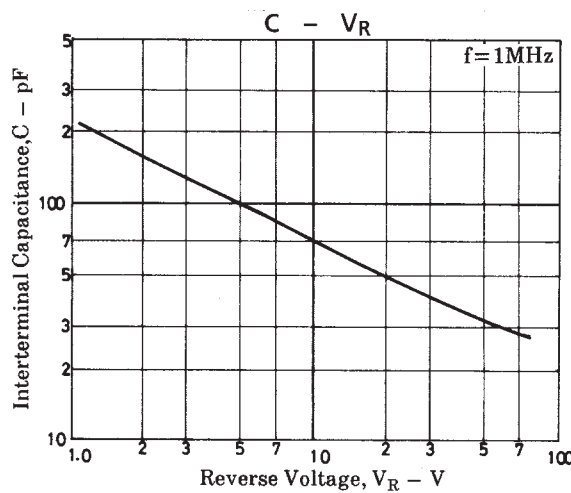
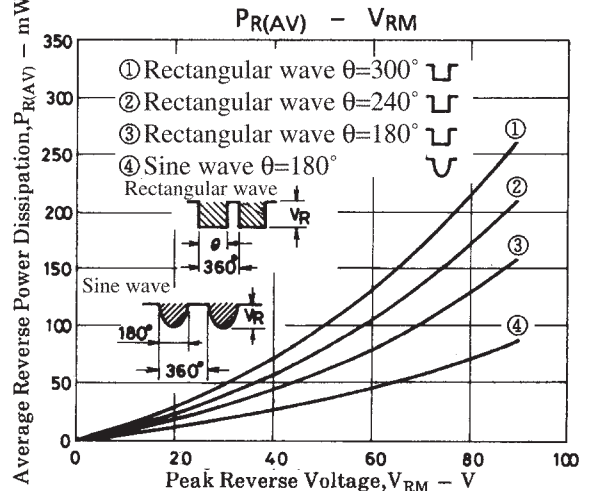
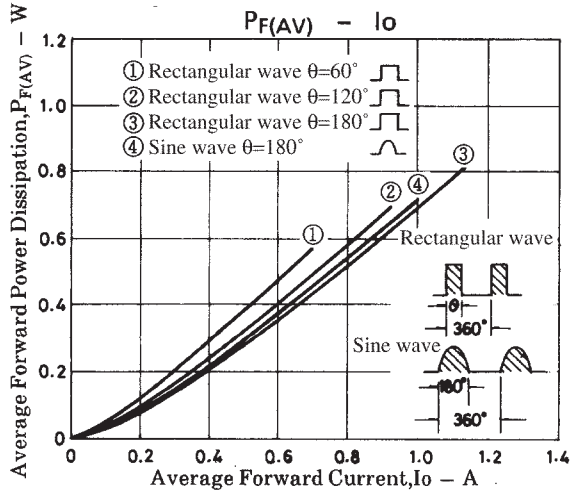
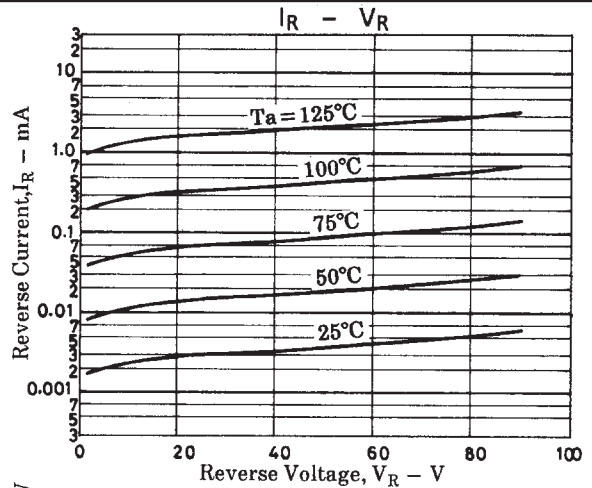
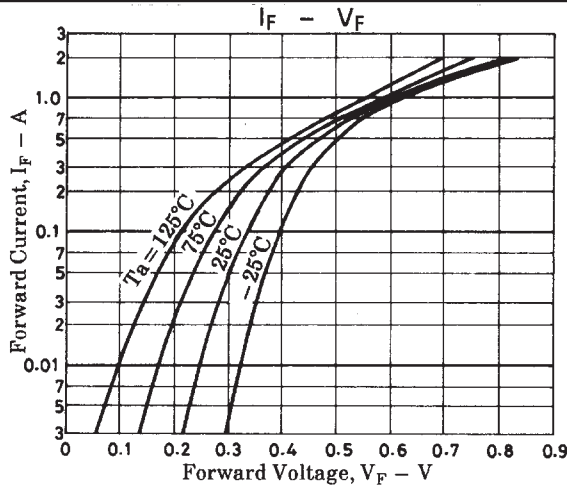
Electrical Characteristics at $T_a = 25^\circ\text{C}$

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	μA
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 ² ×0.8mm ceramic board		100		$^\circ\text{C/W}$

Marking:SJ

t_{rr} Test Circuit





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