



SB10-09F

Schottky Barrier Diode

90V, 1A Rectifier

Applications

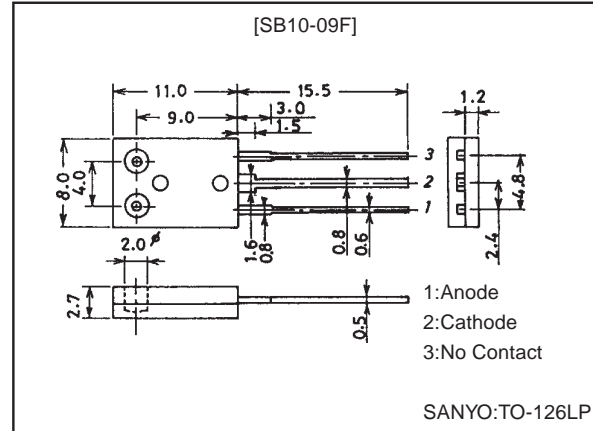
- High frequency rectification (switching regulators, converters, choppers).

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
1200A



Specifications

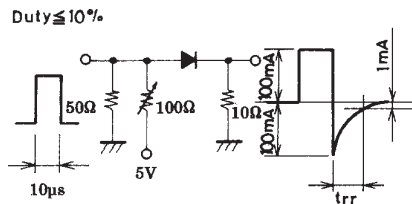
Absolute Maximum Ratings at Ta = 25°C

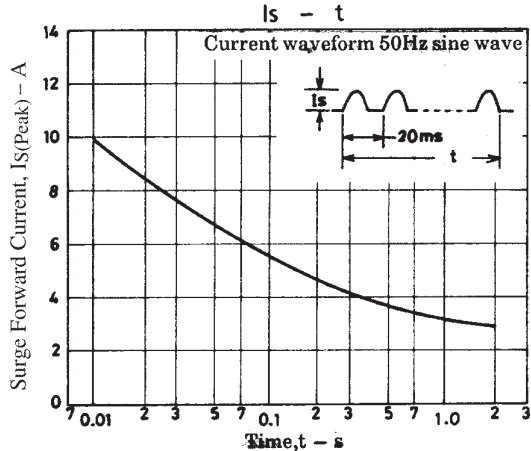
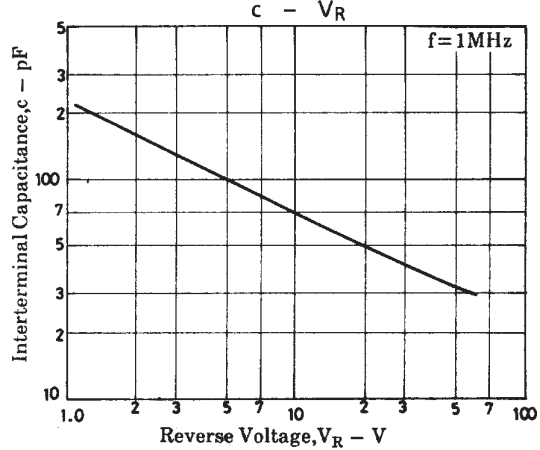
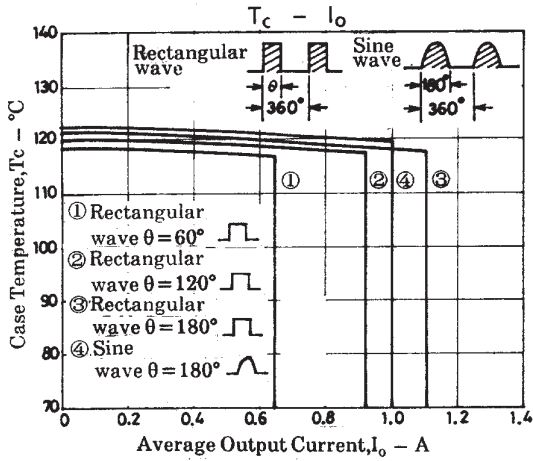
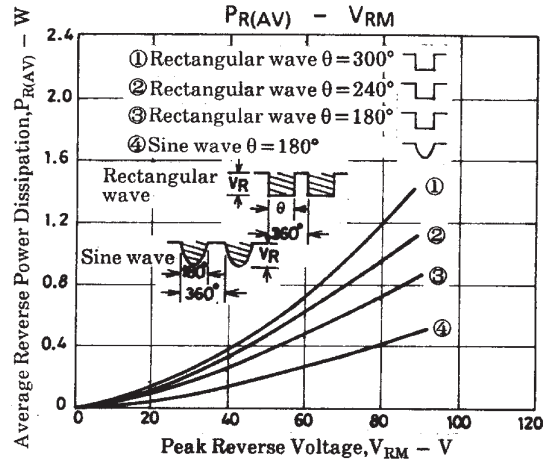
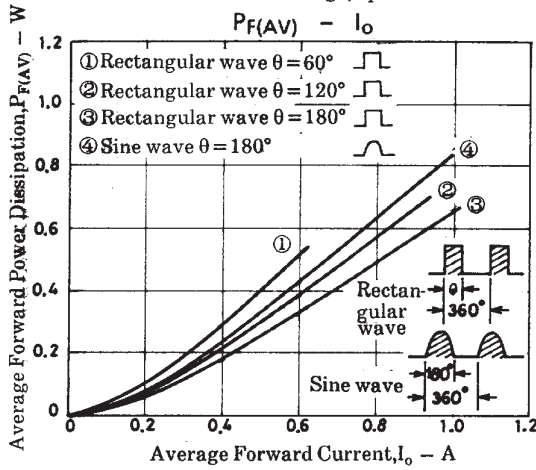
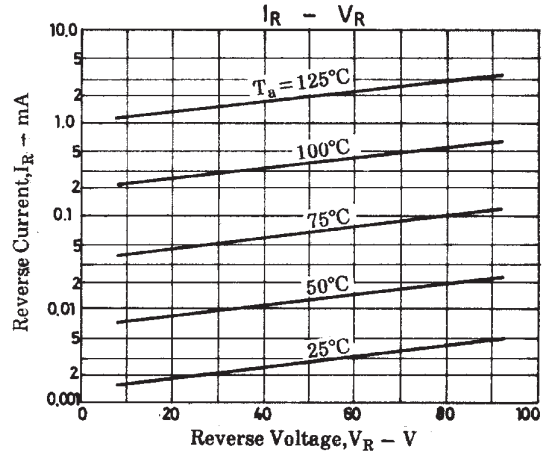
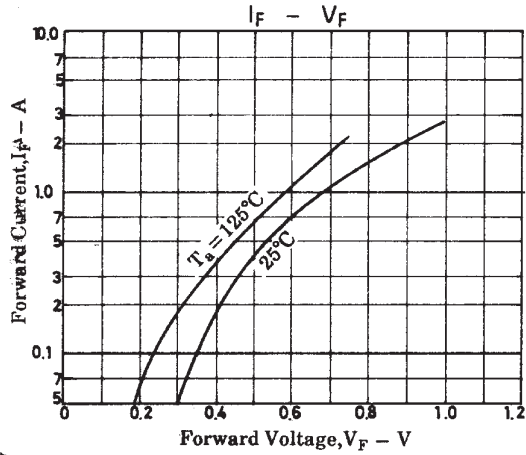
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		90	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		95	V
Average Output Current	I_O	50Hz, resistive load, $T_c=119^\circ\text{C}$	1	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	10	A
Junction Temperature	T_J		-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at Ta = 25°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	$V_R=45\text{V}$			400	μA
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		70		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$			20	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC	4			$^\circ\text{C/W}$

t_{rr} Test Circuit





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