

SB10-09F

Schottky Barrier Diode

90V, 1A Rectifier

Applications

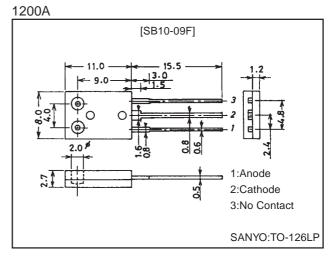
• High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (V_F max=0.7V).
- \cdot Fast reverse recovery time (trr max=20ns).
- · Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

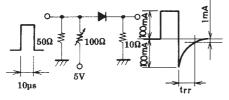
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		90	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		95	V
Average Output Current	I0	50Hz, resistive load, Tc=119°C	1	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

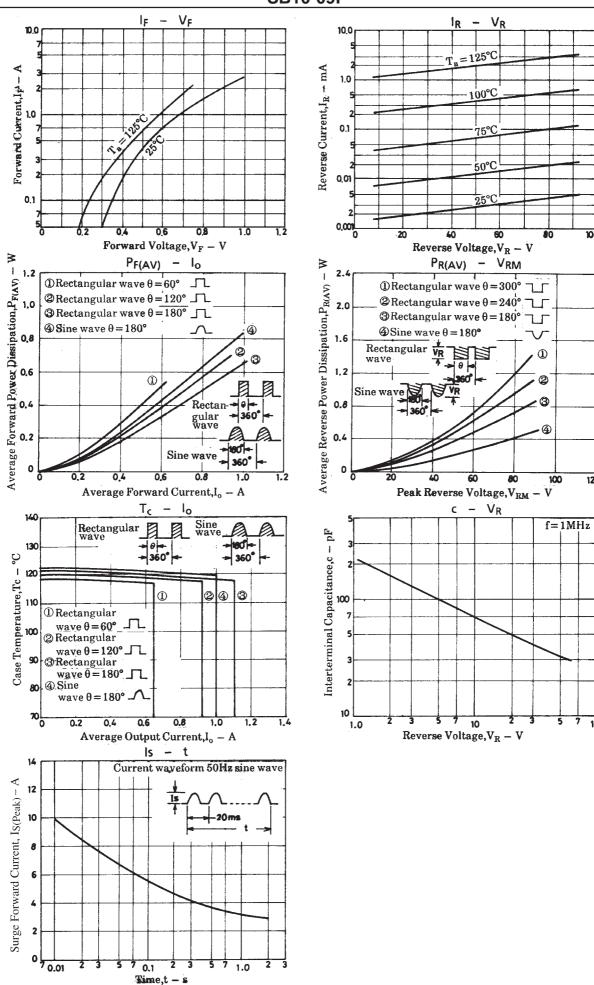
Electrical Characteristics at Ta = 25°C

Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	Onic
Reverse Voltage	VR	I _R =1mA	90			V
Forward Voltage	٧ _F	I _F =1A			0.7	V
Reverse Current	۱ _R	V _R =45V			400	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		70		pF
Reverse Recovery Time	trr	I _F =I _R =100mA			20	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC		4		°C/W

trr Test Circuit

Duty≦10%





■ No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.

Anyone purchasing any products described or contained herein for an above-mentioned use shall:

- ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of April, 1998. Specifications and information herein are subject to change without notice.