

SB20W03T

1:Anode

3:Anode 4:Cathode

2:Cathode

SANYO:TP

Schottky Barrier Diode (Twin Type - Cathode Common)

Package Dimensions

unit:mm

1254A

unit:mm

30V, 2A Rectifier

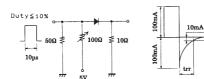
Applications

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

Features

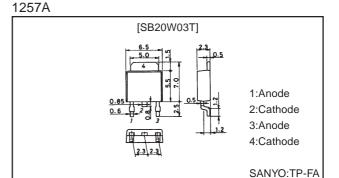
- · Low forward voltage (V_F max=0.55V).
- · Fast reverse recovery time (trr max=20ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

trr Test Circuit



Electrical Connection





[SB20W03T]

Specifications

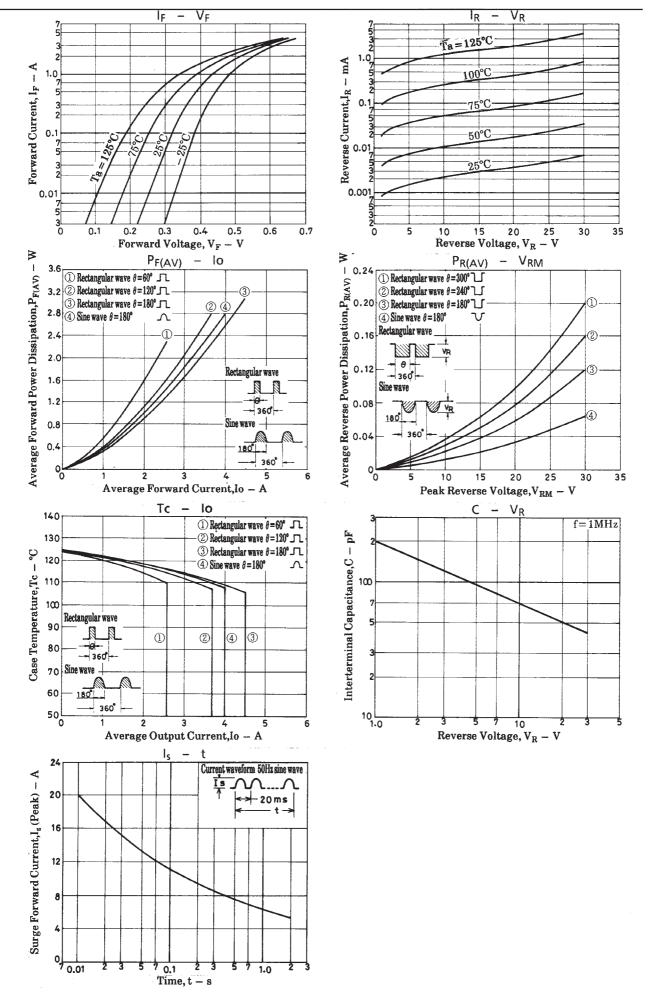
Absolute Maximum Ratings at Ta = 25°C

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	lo	50Hz resistive load, Tc=116°C	2	А
	IO	50Hz resistive load, Tc=107°C, Total rating	4	Α
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	20	Α
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] 01111
Reverse Voltage	٧ _R	I _R =500μA	30			V
Forward Voltage	٧F	I _F =2A			0.55	V
Reverse Current	IR	V _R =15V			100	μΑ
Interteminal Capacitance	С	V _R =10V, f=1MHz		70		pF
Reverse Recovery Time	trr	I _F =I _R =100mA, See specifaied Test Circuit.			20	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)			90		°C/W
Thermal Resistance (Junction-Case)	Rth(j-c)			6		°C/W

SB20W03T



SB20W03T

- 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 responsibilty 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 March, 1998. Specifications and information herein are subject to change without notice.