

SB20W05T

Schottky Barrier Diode (Twin Type - Cathode Common)

50V, 2A Rectifier

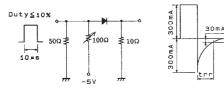
Applications

· 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



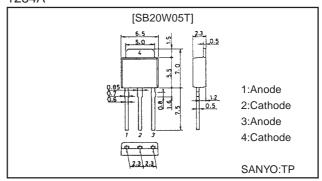
Electrical Connection



Package Dimensions

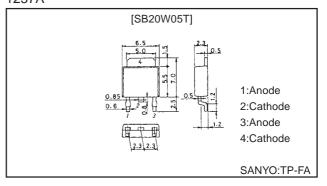
unit:mm

1254A



unit:mm

1257A



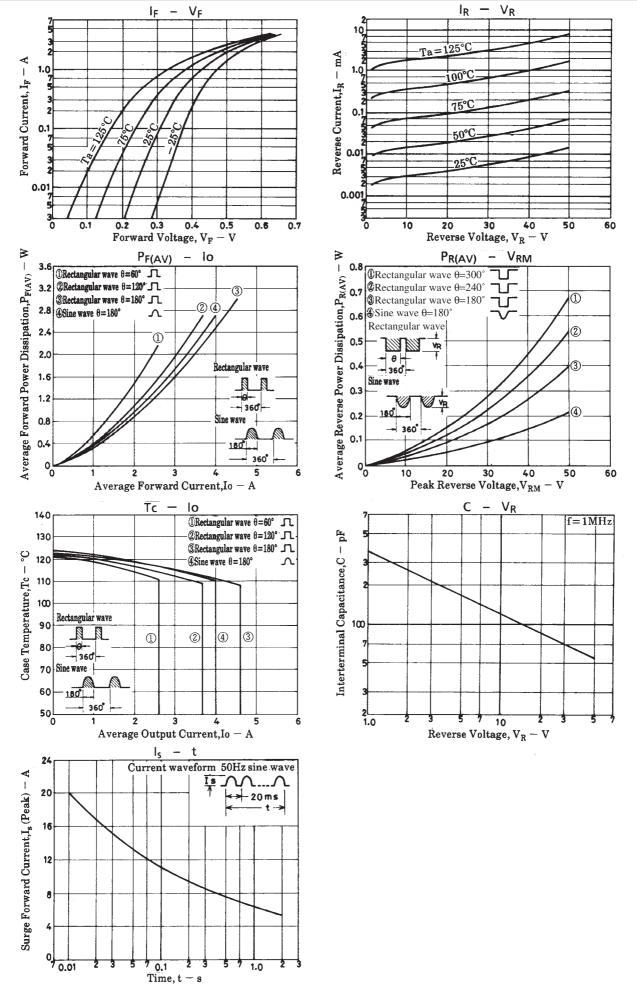
Specifications

Absolute Maximum Ratings at Ta = 25°C (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		55	V
Average Output Current	Io	50Hz resistive load, Tc=117°C	2	Α
	Io	50Hz resistive load, Tc=110°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 (Value per element)

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Oill
Reverse Voltage	٧ _R	I _R =1mA	50			V
Forward Voltage	٧ _F	I _F =2A			0.55	V
Reverse Current	I _R	V _R =25V			200	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		120		pF
Reverse Recovery Time	trr	I _F =I _R =300mA, See specifaied Test Circuit.			20	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)			90		°C/W
Thermal Resistance (Junction-Case)	Rth(j-c)			5		°C/W



SB20W05T

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