

SB20W03T

1:Anode

3:Anode 4:Cathode

2:Cathode

SANYO:TP

Schottky Barrier Diode (Twin Type - Cathode Common)

Package Dimensions

30V, 2A Rectifier

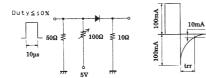
Applications

· 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



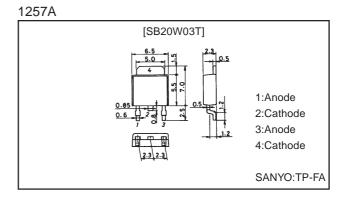
Electrical Connection



unit:mm

unit:mm

1254A



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Specifications

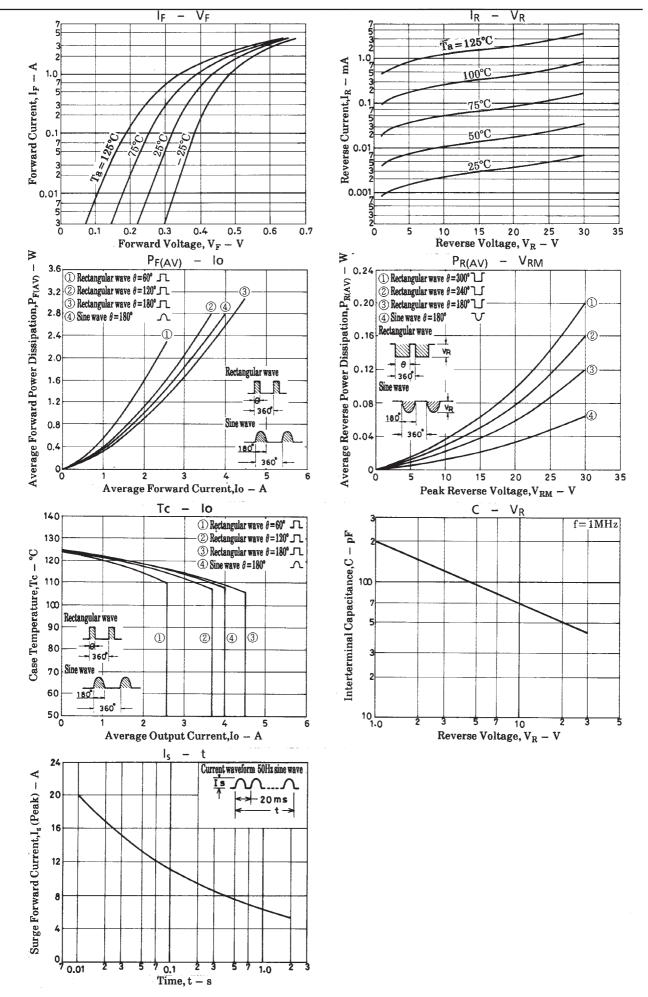
Absolute Maximum Ratings at Ta = 25°C

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	I _O	50Hz resistive load, Tc=116°C	2	Α
	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	V_{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

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