

SB20-05T

Schottky Barrier Diode

50V, 2A Rectifier

Applications

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

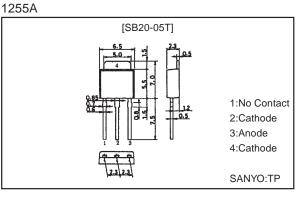
Features

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

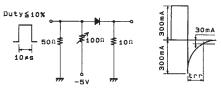
Package Dimensions

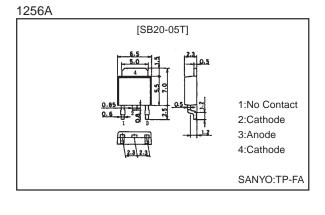
unit:mm

unit:mm



trr Test Circuit





Specifications

Absolute Maximum Ratings at Ta = 25°C

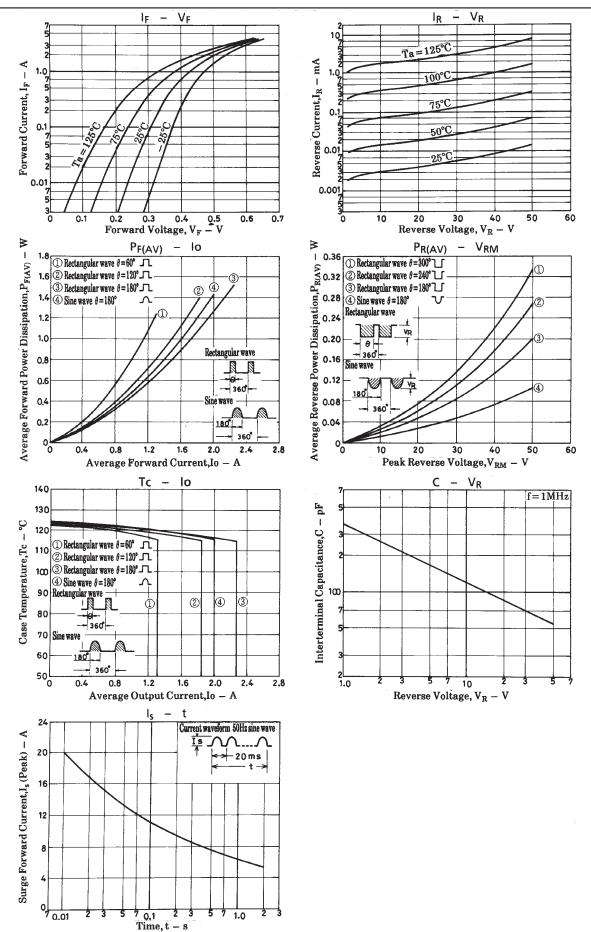
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		55	V
Average Output Current	10	50Hz, resistive load, Tc=115°C	2	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

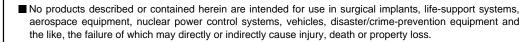
Electrical Characteristics at Ta = 25°C

Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	VR	I _R =1mA	50			V
Forward Voltage	VF	I _F =2A			0.55	V
Reverse Current	IR	V _R =25V			200	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		120		pF
Reverse Recovery Time	trr	IF=IR=300mA, See sepcified Test Circuit			20	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)			90		°C/W
Thermal Resistance (Junction-Case)	Rthj(j-c)			6		°C/W

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