

SB20-05T

Schottky Barrier Diode

50V, 2A Rectifier

Applications

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

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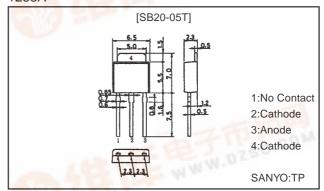
Features

- · 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.

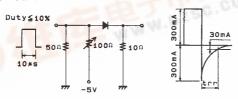
WWW.DZSC.COM **Package Dimensions**

unit:mm

1255A

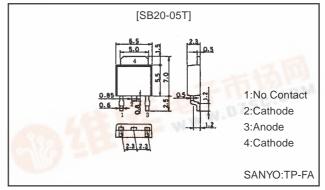


trr Test Circuit



unit:mm

1256A



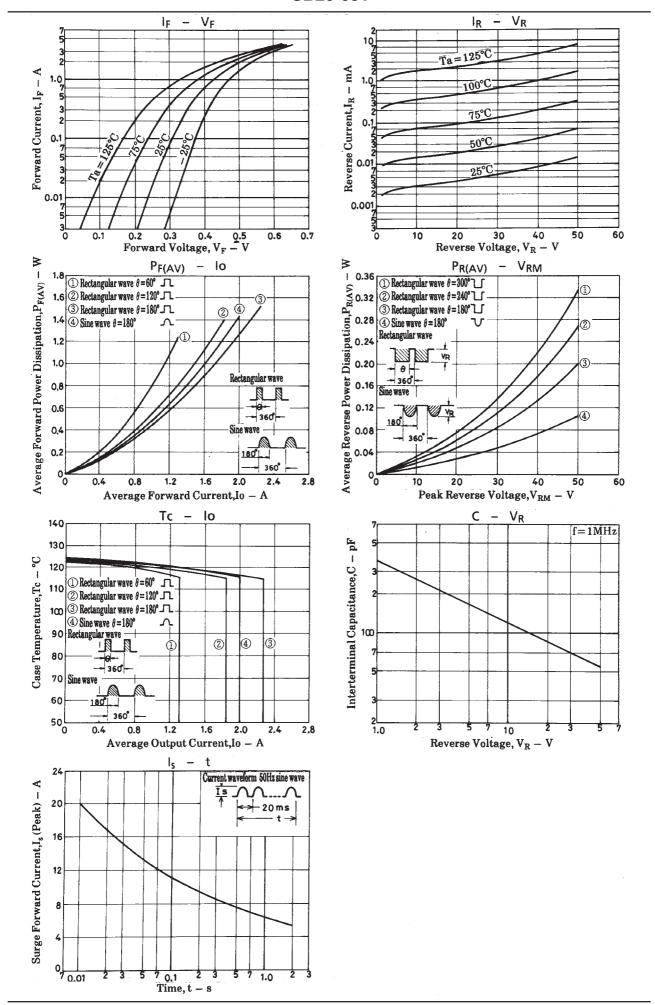
Specifications

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	Io	50Hz, resistive load, Tc=115°C	2	Α
Surge Forward Current	IFSM	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	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_{R}	I _R =1mA	50			V
Forward Voltage	٧F	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 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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