

SB10-09T

Schottky Barrier Diode

90V, 1A Rectifier

Applications

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

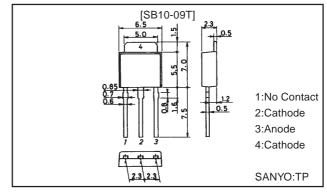
Features

- · Low forward voltage (V_F max=0.7V).
- · Fast reverse recovery time (trr max=20ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

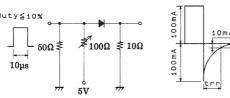
Package Dimensions

unit:mm

1255A

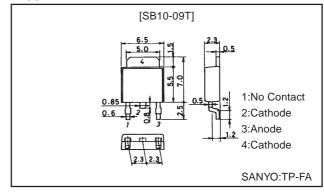


trr Test Circuit



unit:mm

1256A



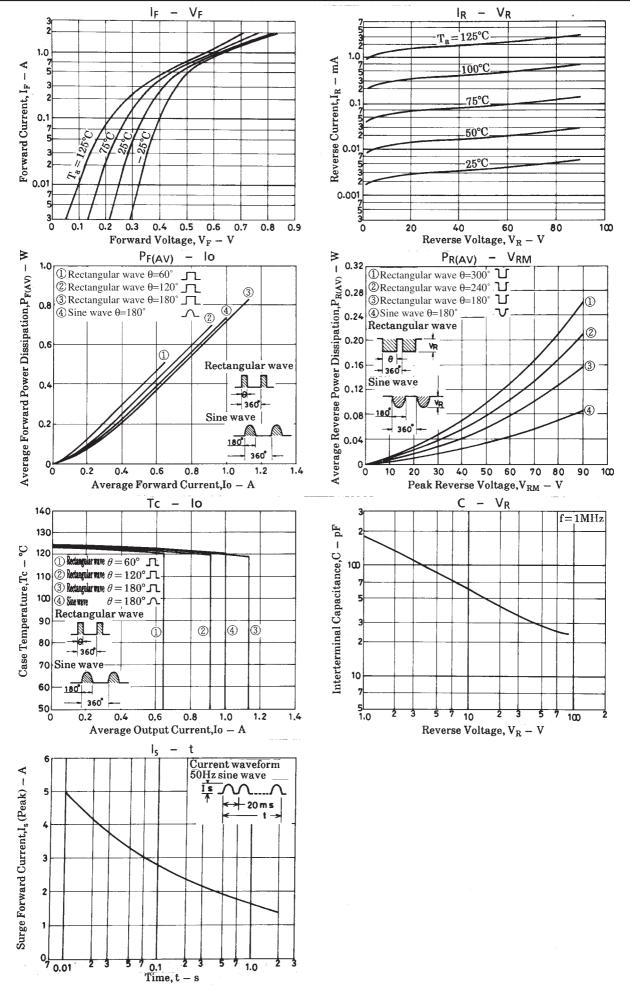
Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		90	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		95	V
Average Output Current	IO	50Hz resistive load, Tc=120°C	1	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	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	Offic
Reverse Voltage	٧R	I _R =1mA	90			V
Forward Voltage	٧F	I _F =1A			0.7	V
Reverse Current	I _R	V _R =45V			200	μΑ
Interterminal 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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