

SB100-09K

Schottky Barrier Diode (Twin Type - Cathode Common)

90V, 10A Rectifier

Applications

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

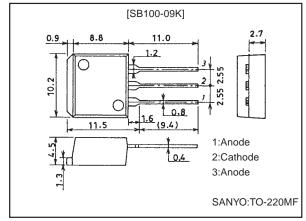
Features

- \cdot Low forward voltage (V_F max=0.85V).
- · Fast reverse recovery time (trr max=45ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1199C



Specifications

Absolute Maximum Ratings at Ta = 25°C

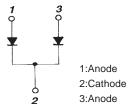
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		90	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		95	V
Average Output Current	I _O	50Hz, resistive load, Tc=92°C	10	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	80	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

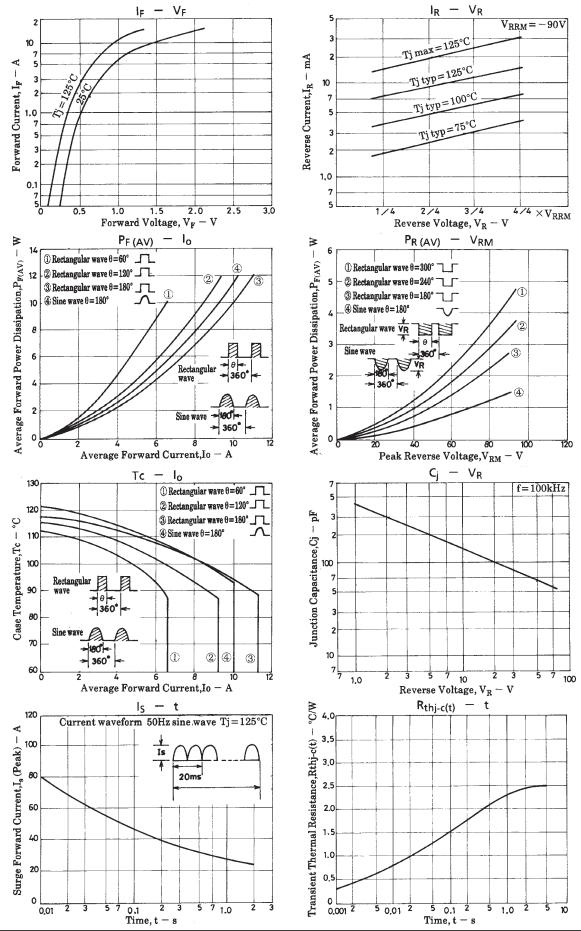
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	V _R	I _R =2mA, Tj=25°C, *	90			V
Forward Voltage	٧F	I _F =4A, Tj=25°C, *			0.85	V
Reverse Current	I _R	V _R =45V, Tj=25°C, *			0.4	mA
Reverse Recovery Time	trr	I _F =2mA, Tj=25°C, *, -dI _F /dt=10A/μs			45	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			2.5	°C/W

Note *: Value per element

Electrical Connection





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