

SB10-18K

Schottky Barrier Diode (Twin Type - Cathode Common)

180V, 1A Rectifier

Applications

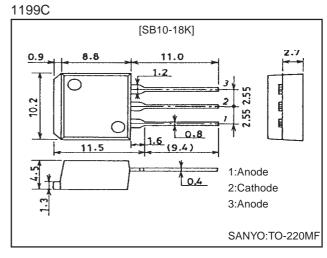
• High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage ($V_F=0.85V$ max).
- Fast reverse recovery time (trr=35ns max).
- · Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

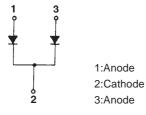
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		180	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		190	V
Average Output Current	lo	50Hz, resistive load, Tc=112°C	1	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	30	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

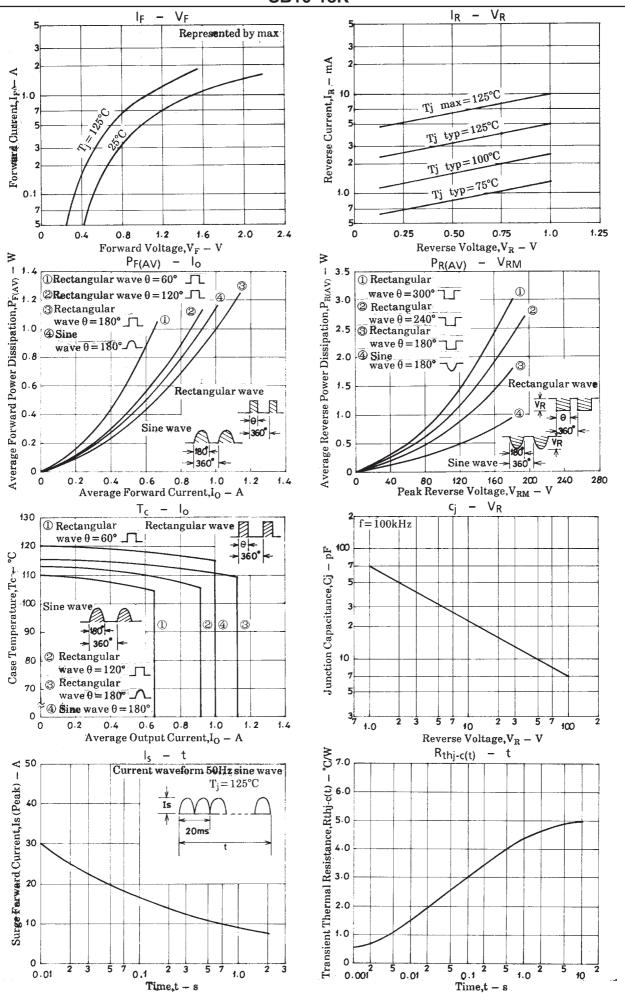
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Onit
Reverse Voltage	VR	I _R =0.5mA, Tj=25°C,*	180			V
Forward Voltage	٧ _F	I _F =0.4A, Tj=25°C,*			0.85	V
Reverse Current	IR	V _R =90V, Tj=25°C,*			0.1	mA
Reverse Recovery Time	trr	I _F =2A, Tj=25°C,*,-dI _F /dt=10A/µs			35	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			5.0	°C/W

Note *: Value per element

Electrical Connection



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