



SB10-18K

Schottky Barrier Diode (Twin Type · Cathode Common)

180V, 1A Rectifier

Applications

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

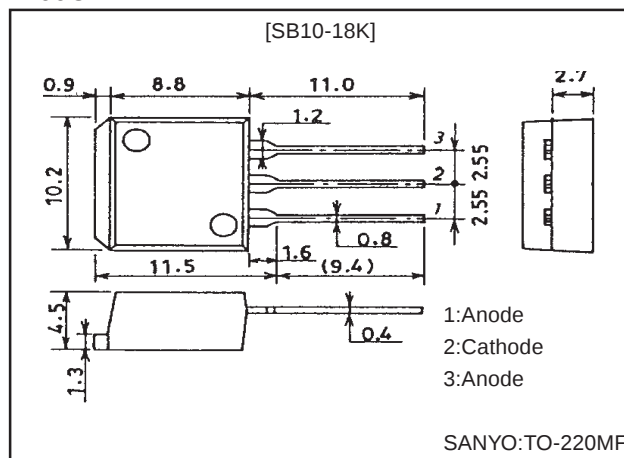
Features

- Low forward voltage ($V_F=0.85V$ max).
- Fast reverse recovery time ($t_{rr}=35ns$ max).
- 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 $T_a = 25^\circ C$

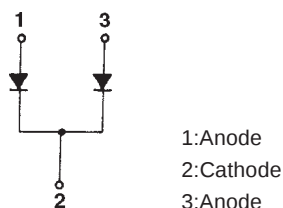
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		180	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		190	V
Average Output Current	I_O	50Hz, resistive load, $T_c=112^\circ C$	1	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	30	A
Junction Temperature	T_j		-55 to +125	$^\circ C$
Storage Temperature	T_{stg}		-55 to +125	$^\circ C$

Electrical Characteristics at $T_a = 25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=0.5mA$, $T_j=25^\circ C$, *	180			V
Forward Voltage	V_F	$I_F=0.4A$, $T_j=25^\circ C$, *			0.85	V
Reverse Current	I_R	$V_R=90V$, $T_j=25^\circ C$, *			0.1	mA
Reverse Recovery Time	t_{rr}	$I_F=2A$, $T_j=25^\circ C$, *, $-dI_F/dt=10A/\mu s$			35	ns
Thermal Resistance	R_{thj-c}	Junction-Case: Smoothed DC			5.0	$^\circ C/W$

Note *: Value per element

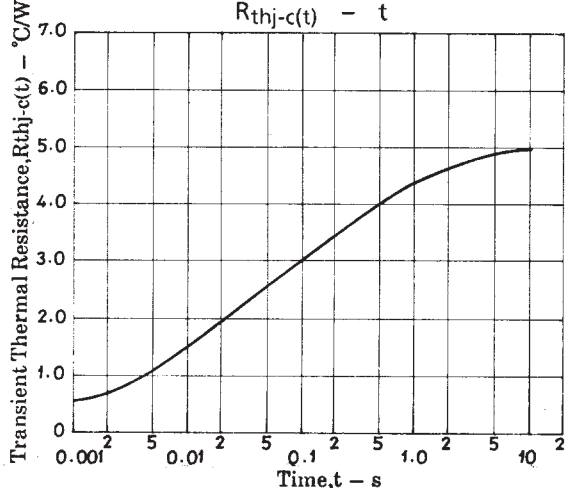
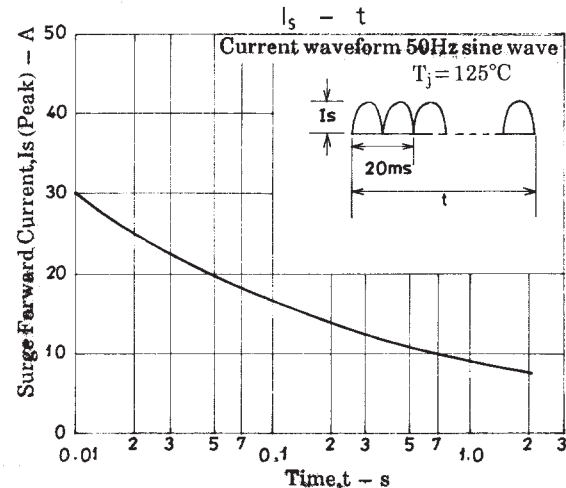
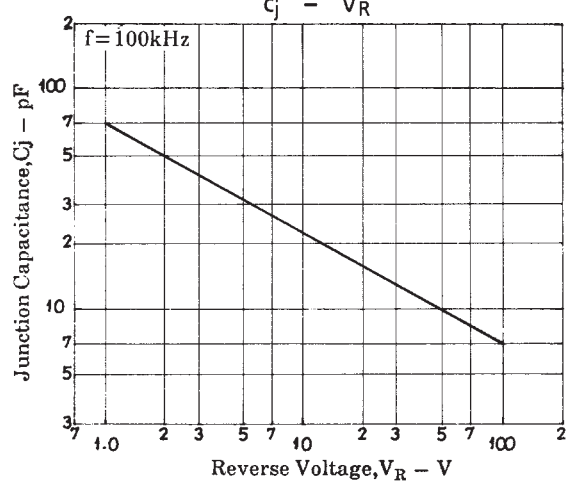
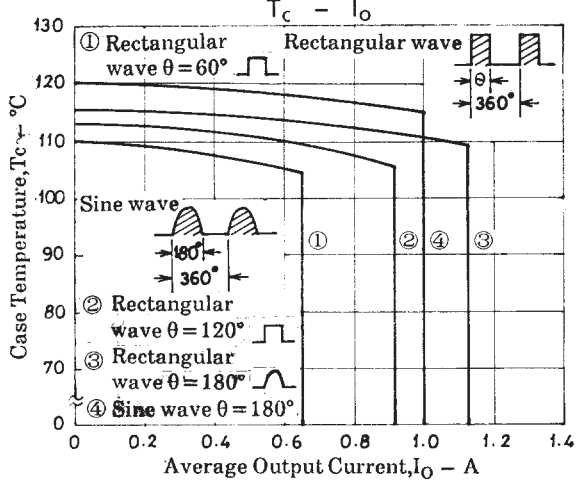
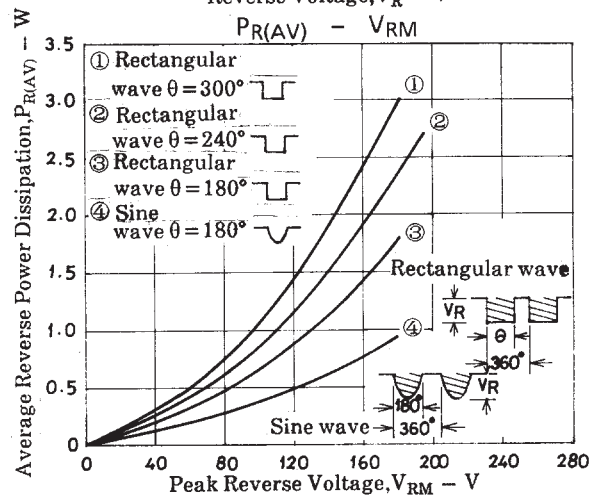
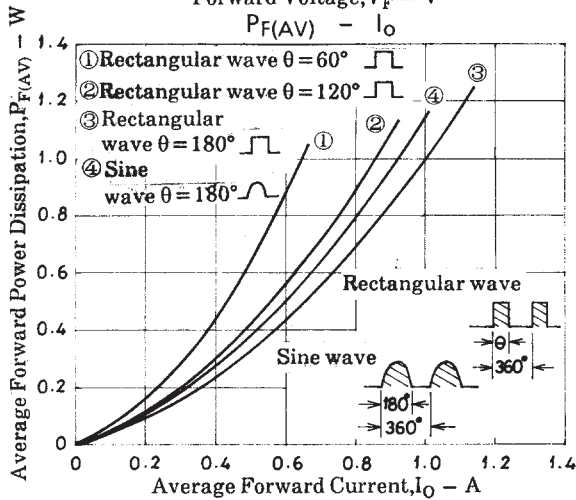
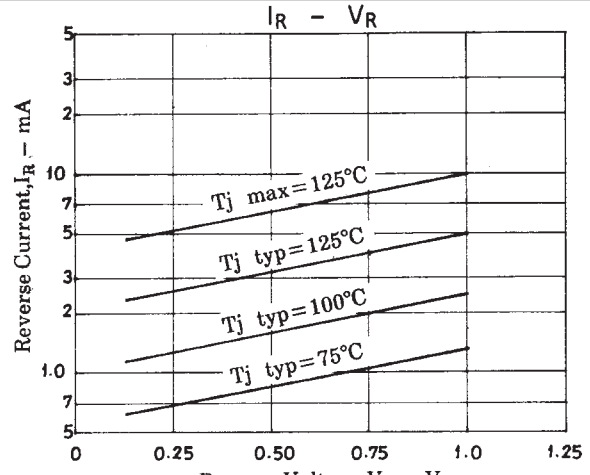
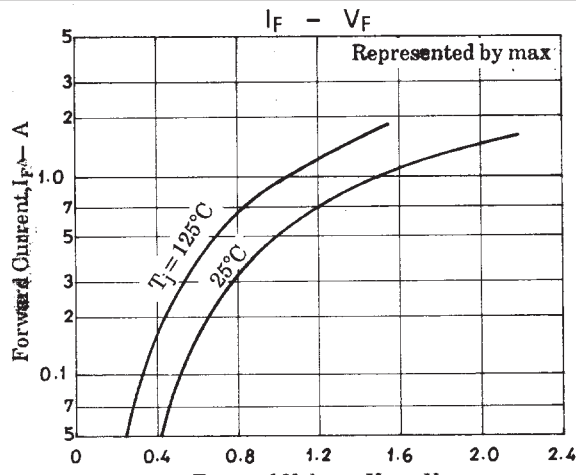
Electrical Connection



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