

SB10-18

Schottky Barrier Diode (Twin Type - Cathode Common)

80V, 1A Rectifier

Applications

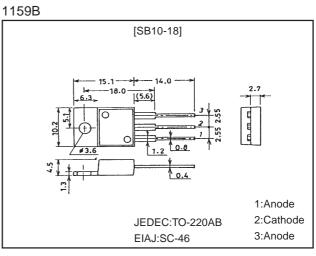
• High frequency rectification (switching regulators, converters, choppers).

Features

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

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

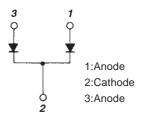
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		180	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		190	V
Average Output Current	I0	50Hz, resistive load, Tc=114°C	1	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	30	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics

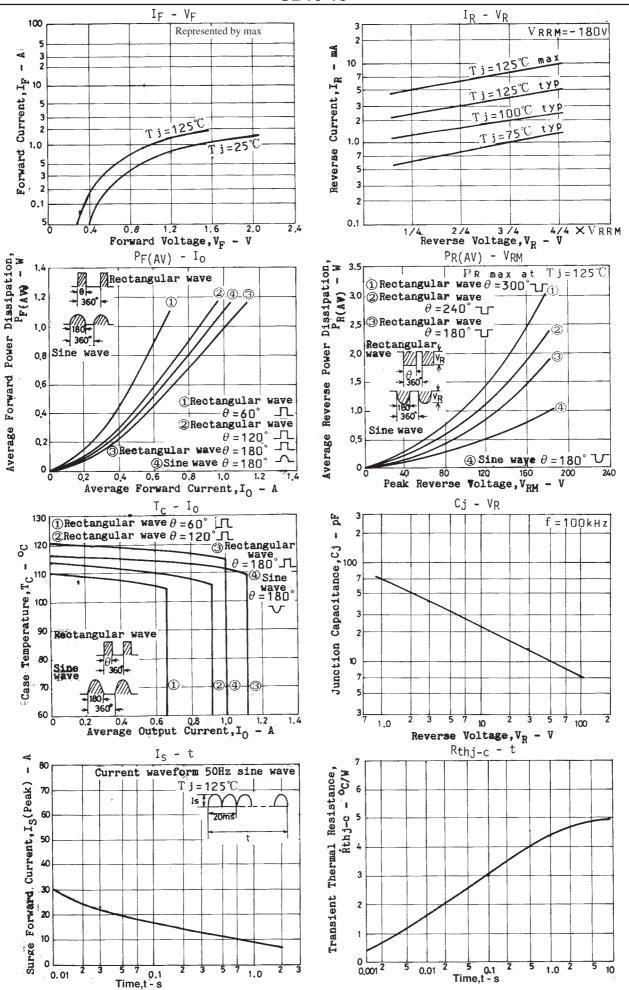
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	I _R =0.5mA, Tj=25°C, *	180			V
Forward Voltage	٧ _F	I _F =0.4A, Tj=25°C, *			0.85	V
Reverse Current	IR	V _R =90V, Tj=25°C, *			0.1	mA
Reverse Recovery Time	trr	I _F =2A, Tj=25°C, *,-dI _F /dt=10A/μs			35	ns
Thermal Resistance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

Note*: Value per element

Electrical Connection



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