

SB100-18

Schottky Barrier Diode (Twin Type - Cathode Common)

180V, 10A Rectifier

Applications

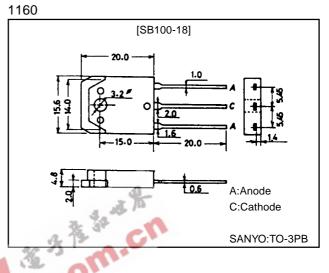
• High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (V_F max=0.85V).
- \cdot Fast reverse recovery time (trr max=45ns).
- · 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

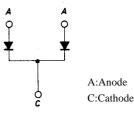
Parameter		Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage		VRRM		-180	V
Non-repetitve Peak Reverse Surge Voltage		VRSM		-190	V
Average Output Current		10	50Hz, resistive load, Tc=102°C	10	А
Surege Forward Current		IFSM	50Hz sine wave, 1 cycle	100	А
Junction Temperature		Tj		-55 to +125	°C
Storage Temperature		Tstg		-55 to +125	°C

Electrical Characteristics

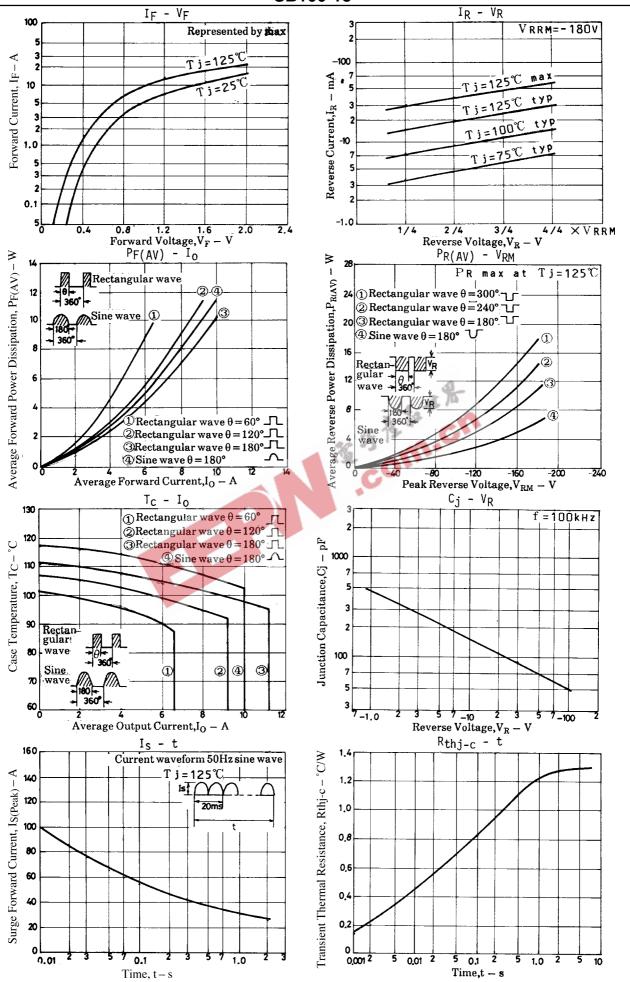
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Reverse Voltage	VR	I _R =–4mA, Tj=25°C*	-180			V
Forward Voltage	٧ _F	I _F =4A, Tj=25°C*			0.85	V
Reverse Current	۱ _R	V _R =-90V, Tj=25°C*			-0.8	mA
Reverse Recovery Time	trr	I _F =2A, Tj=25°C*, -dI _F /dt=10A/μs			45	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			1.3	°C/W

Note)*:Value per element

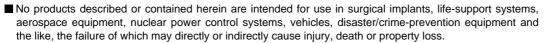
Electrical Connection



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