

SBA120-18J

Schottky Barrier Diode (Twin Type - Cathode Common)

180V, 12A Rectifier

An ON Semiconductor Company

Applications

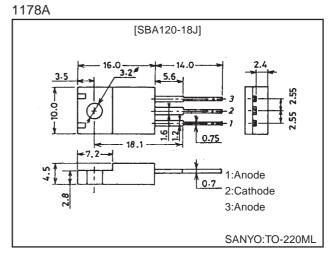
• High frequency rectification (switching regulators, converters, choppers).

Features

- \cdot Low forward voltage (V_F max=0.85V).
- · Fast reverse recovery time.
- · Low switching noise.
- High reliability due to highly reliable planar structure.
- · Micaless package facilitating easy mounting.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

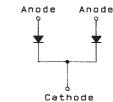
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		180	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		190	V
Average Output Current	IO	50Hz, resistive load, Tc=67°C	12	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	120	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

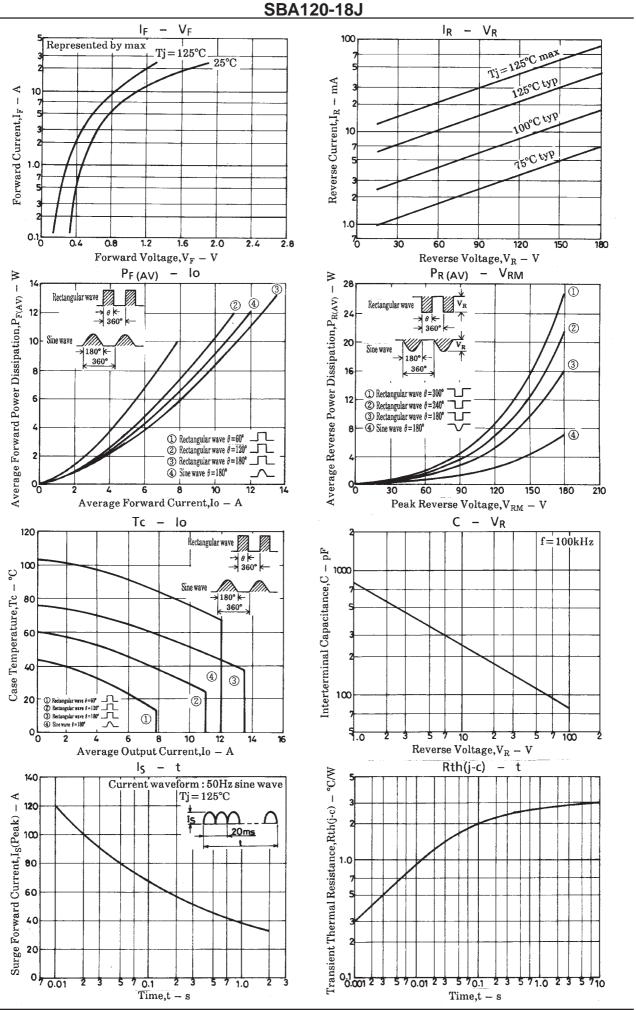
Electrical Characteristics

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Onit
Reverse Voltage	VR	I _R =3mA, Tj=25°C, *	180			V
Forward Voltage	٧ _F	I _F =6A, Tj=25°C, *			0.85	V
Reverse Current	IR	V _R =90V, Tj=25°C, *			0.3	mA
Interterminal Capacitance	С	V _R =10V, Tj=25°C, *		250		pF
Thermal Resistance	Rth(j-c)	Junction-Case:Smoothed DC			3.0	°C/W

Note*:Value per element

Electrical Connection





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