

SB80-09

Schottky Barrier Diode (Twin Type - Cathode Common)

90V, 8A Rectifier

Applications

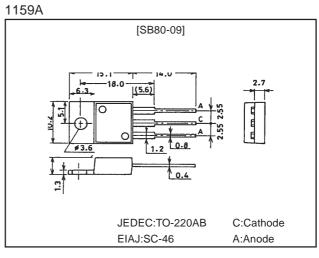
• High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (V_F max=0.85V).
- \cdot Fast reverse recovery time (trr max=40ns).
- · 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

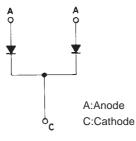
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		90	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		95	V
Average Output Current	IO	50Hz, resistive load, Tc=94°C	8	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	80	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics

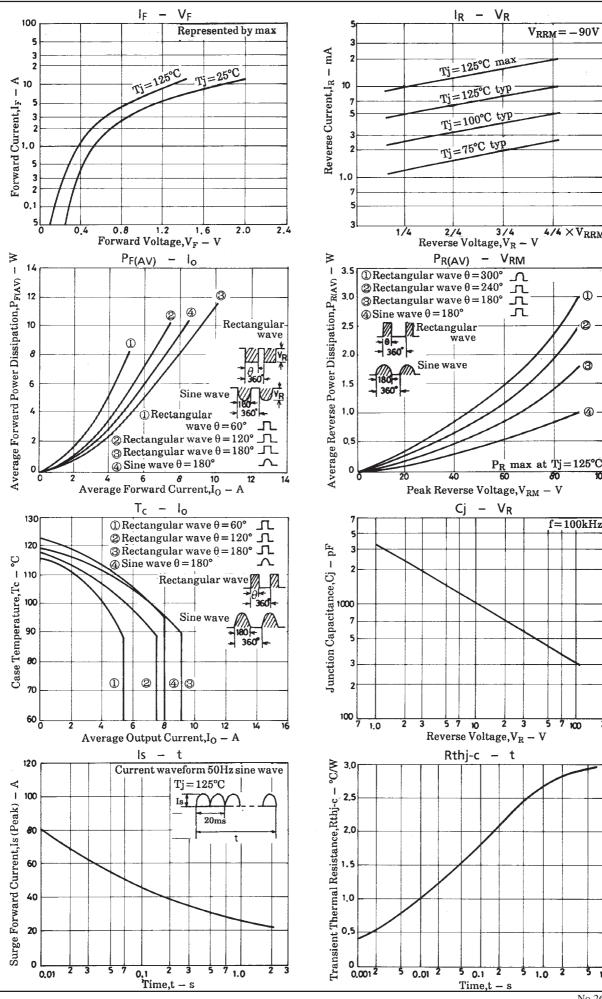
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Onit
Reverse Voltage	VR	I _R =1.5mA, Tj=25°C, *	90			V
Forward Voltage	VF	I _F =3A, Tj=25°C, *			0.85	V
Reverse Current	۱ _R	V _R =45V, Tj=25°C, *			0.3	mA
Reverse Recovery Time	trr	I _F =2A, Tj=25°C, *, -dI _F /dt=10A/μs			40	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			3.0	°C/W

Note*:Value per element

Electrical Connection



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10

 $4/4 \times V_{RRM}$

0

3

4

f = 100 kHz

7 100

5

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