

SBD
Schottky Barrier Diode, 200V, 15A × 2
Description

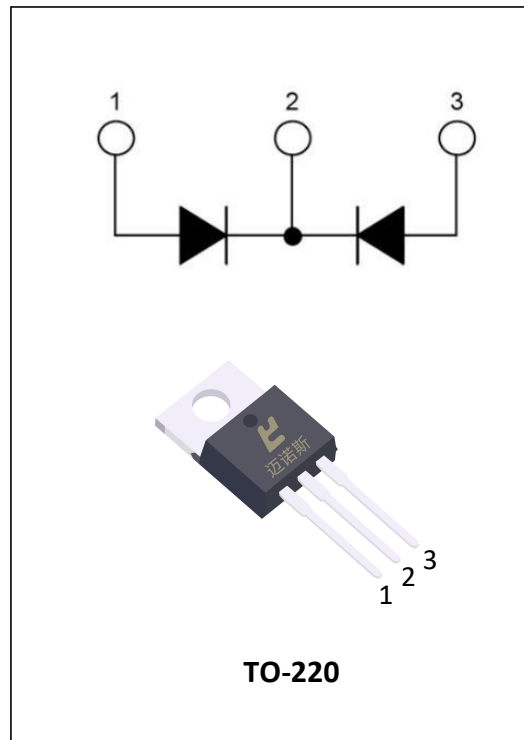
These diodes are optimized to get low forward voltage and low reverse leakage current. These devices are suited for high frequency switched mode power supplies.

General Features

- ① High ESD capability
- ② 150°C operating junction temperature
- ③ High frequency operation
- ④ Low IR value
- ⑤ High surge capacity

Application

- ① Switched mode power supply


Absolute Maximum Ratings

Parameter	Symbol	Test Conditions	Values	Units
Repetitive peak reverse voltage	V_{RRM}		200	V
Average Rectified Output Current	I_o	$T_A=25^{\circ}\text{C}$	30	A
Single pulse forward current	I_{FSM}	$T_A=25^{\circ}\text{C}$	230	A
Current Squared Time	I^2t	$1\text{ms} \leq t \leq 8.3\text{ms}$ $T_j=25^{\circ}\text{C}$	222	A^2s
Operating junction	T_j		-55 to +175	$^{\circ}\text{C}$
Storage temperatures	T_{stg}		-55 to +175	$^{\circ}\text{C}$

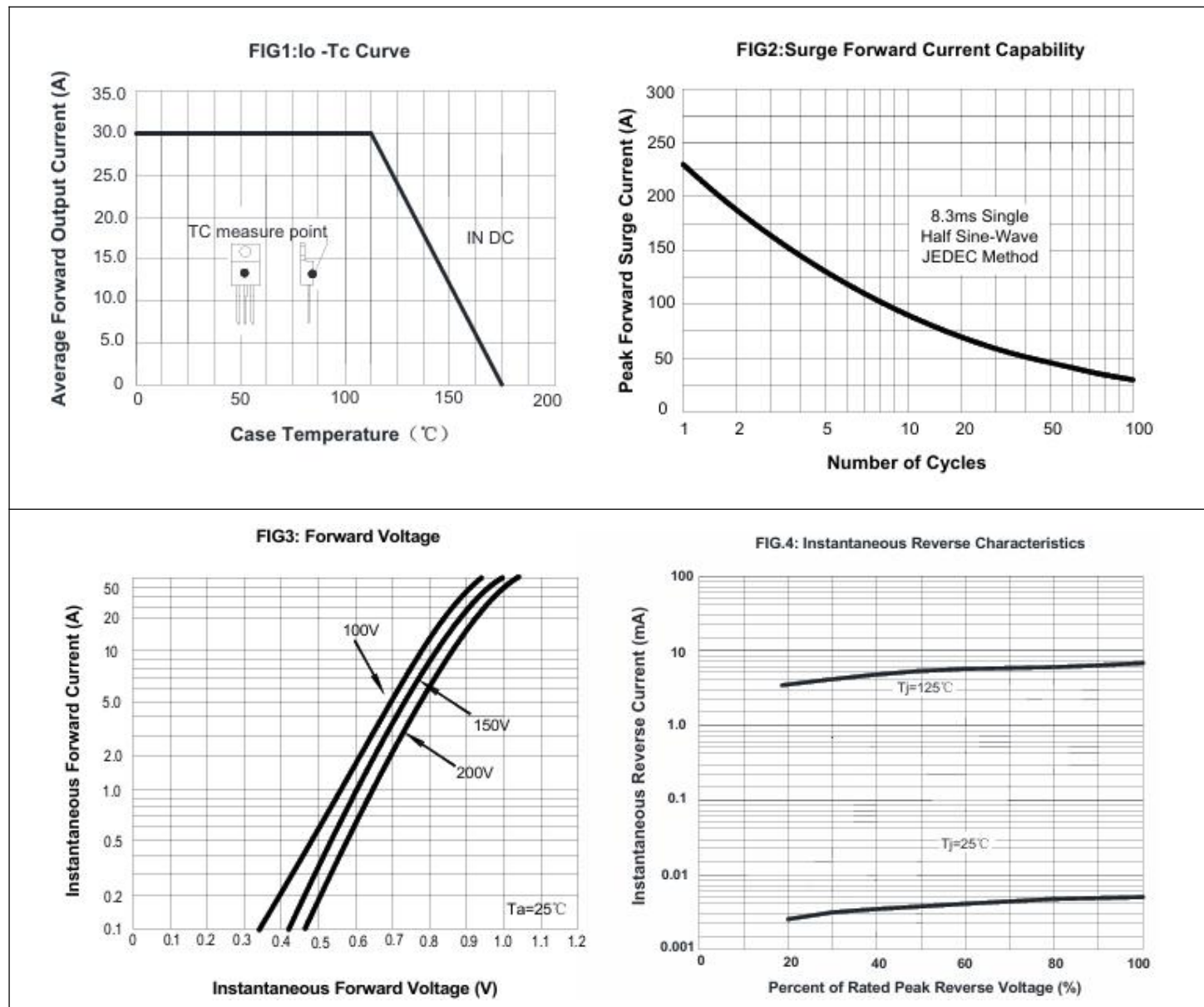
Electrical characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Units
Peak Forward Voltage	V_{FM}	$I_{FM}=15.0\text{A}$ $T_j=25^{\circ}\text{C}$	--	0.95	--	V
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	$V_{RM}=V_{RRM}$ $T_j=25^{\circ}\text{C}$	--	0.1	--	mA
	I_{RRM2}	$V_{RM}=V_{RRM}$ $T_j=125^{\circ}\text{C}$	--	20	--	

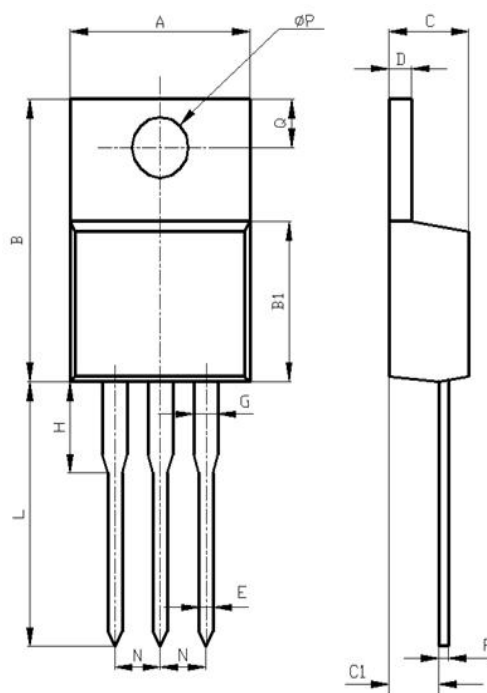
Thermal characteristics

Parameter	Symbol	Typ.	Max.	Units
Between junction and case	$R_{\theta J-C}$	-	2.0	$^{\circ}\text{C}/\text{W}$

Characteristics Curves



Package Description



Items	Values(mm)	
	MIN	MAX
A	9.60	10.6
B	15.0	16.0
B1	8.90	9.50
C	4.30	4.80
C1	2.30	3.10
D	1.20	1.40
E	0.70	0.90
F	0.30	0.60
G	1.17	1.37
H	2.70	3.80
L	12.6	14.8
N	2.34	2.74
Q	2.40	3.00
Ø P	3.50	3.90

TO-220 Package

NOTE:

1. Exceeding the maximum ratings of the device in performance may cause damage to the device, even the permanent failure, which may affect the dependability of the machine. Please do not exceed the absolute maximum ratings of the device when circuit designing.
2. When installing the heat sink, please pay attention to the torsional moment and the smoothness of the heat sink.
3. SBD is the device which is sensitive to the static electricity, it is necessary to protect the device from being damaged by the static electricity when using it.
4. Shenzhen Minos reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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