

BDH200D30DO1

Silicon diode

200V, 30A

Description

BDH200D30DO1 utilizes Bestirpower's advanced silicon diode technology. This technology combines the benefits of excellent low forward voltage and robustness. Consequently, the family is suitable for application requiring high power efficiency

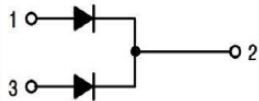
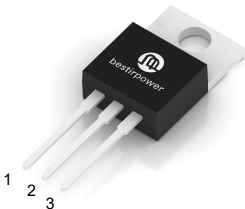
Features

V_{RRM}	I_F
200 V	30A

- High switching frequency
- Low forward voltage drop
- High efficiency and low power loss
- High volume of current and good capability of surge current

Applications

- High frequency rectifier of switching mode power supplies
- Freewheeling diodes
- Polarity protection application
- DC-DC converters



Absolute Maximum Ratings ($T_C = 25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	200	V
I_F	Forward Current $T_C = 25^{\circ}\text{C}$	30	A
$I_{F,SM}$	Non-Repetitive Forward Surge Current $T_C = 25^{\circ}\text{C}, t_p = 10\text{ ms}$	250	A
V_R	Maximum DC blocking voltage	200	V
$I_{F,AV}$	Repetitive Peak Forward Surge Current $T_C = 25^{\circ}\text{C}, t_p = 10\text{ ms}$	30	A
T_J, T_{STG}	Operating Junction and Storage Temperature	-55 to +175	$^{\circ}\text{C}$

Thermal Characteristics

Symbol	Parameter	Value	Unit
$R_{\theta JC}$	Thermal Resistance, Junction to Case, Typ.	0.97	$^{\circ}\text{C/W}$

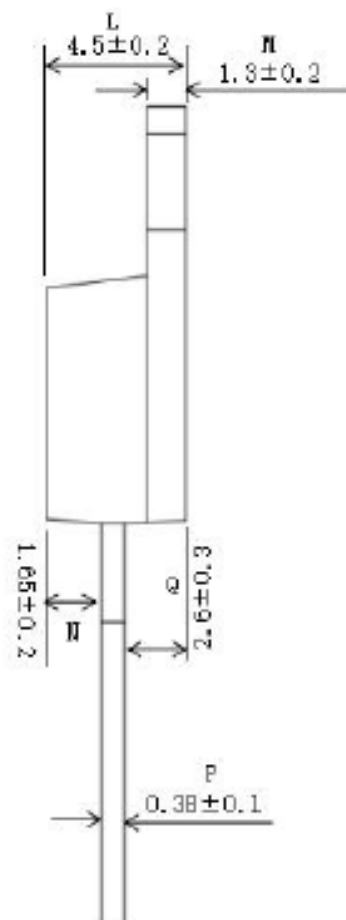
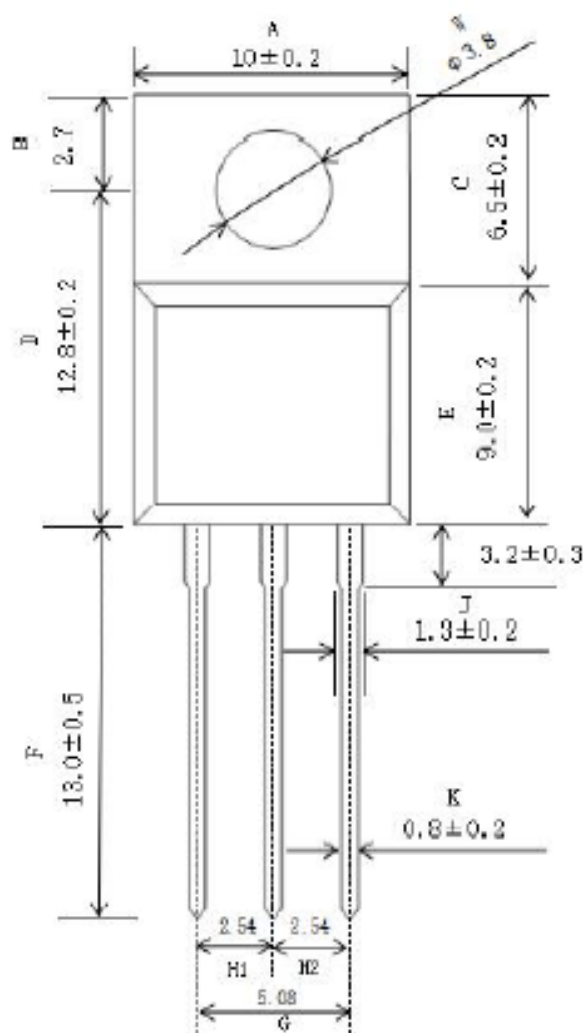
Electrical Characteristics (T_C = 25°C unless otherwise noted)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _{DC}	DC blocking voltage		200	-	-	V
V _F	Forward Voltage(2)	I _F =30A, T _J =25°C	-	0.89	1.02	V
I _R	Reverse Current(1)	V _R = 200 V, T _J = 25°C	-	-	5	μA
dV/dt	Voltage Rate of Change	T _J = 25°C	-	-	10000	V/μs

Note 1: 2.0uS Pulse Width, f=1.0KHz

Note 2: Pulse Test : 300us Pulse Width, 1% Duty Cycle

Package Outlines TO220-3



注:
1. 单位: mm
2. 未注公差: ± 0.2 mm
(除非另有说明)

Package Marking and Ordering Information

Part Number	Top Marking	Package	Packing Method	Quantity
BDH200D30DO1	BDH200D30DO1	TO220-3	Tube	50 units

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