

BD3520 & BD3524



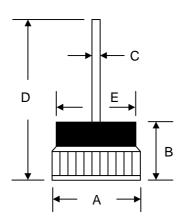
35A AVALANCHE BOSCH TYPE PRESS-FIT DIODE

Features

- **Diffused Junction**
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 200nA

Mechanical Data

- Case: 13mm Bosch Type Press-Fit
- Terminals: Contact Areas Readily Solderable
- Polarity: Cathode to Case (Reverse Units Are Available Upon Request and Are Designated By A "R" Suffix, i.e. BD3520R or BD3524R)
- Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 2





13mm Bosch					
Dim	Min	Max			
Α	12.80	13.20			
В	10.00	_			
С	1.25	1.31			
D	33.00	_			
E	9.90	10.10			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	BD3520	BD3524	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	16	20	V
Average Rectified Output Current @T _C = 150°C		lo	35		Α
Breakdown Voltage Min. Breakdown Voltage Max.	@I _R = 100mA @I _R = 100mA	VBR	20 26	24 32	V
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	400		А
Forward Voltage	@I _F = 35A	VFM	1	.0	V
Peak Reverse Current At Rated DC Blocking Voltage @T _A = 25°C		Irm	2	00	nA
Typical Junction Capacitance (Note 1)		Cj	300		pF
Typical Thermal Resistance (Note 2)		RθJC	1.2		°C/W
Operating and Storage Temperature Range		Тл, Тѕтс	-65 to +175		°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance: Junction to case, single side cooled.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
BD3520	13mm Bosch Press-Fit	100 Units/Box
BD3524	13mm Bosch Press-Fit	100 Units/Box

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BD3520-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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