

BD3520, BD3524, BD3536

35A AVALANCHE BOSCH TYPE PRESS-FIT DIODE

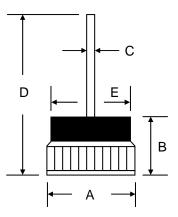


Features

- 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	9.40	—			
С	1.25	1.31			
D	28.00	—			
Е	9.90	11.10			
All Dimensions in mm					

Anode +

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	BD3536	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	16	20	32	V
Average Rectified Output Current	current $@T_c = 150^{\circ}C$		35		А	
Breakdown Voltage Min. Breakdown Voltage Max.	@I _R = 100mA @I _R = 100mA	Vbr	20 26	24 32	36 42	V
Non-Repetitive Peak Forward Surge Cu 8.3ms Single Half Sine-Wave Superimp Rated Load (JEDEC Method)		IFSM		400		A
Forward Voltage	@I _F = 35A	Vfm	1.0		V	
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C	Iгм		200		nA
Typical Junction Capacitance (Note 1)		CJ	300		pF	
Typical Thermal Resistance (Note 2)		R JC	1.2		°C/W	
Operating and Storage Temperature Range		TJ, TSTG	-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	180 Units/Box		
BD3524	13mm Bosch Press-Fit	180 Units/Box		
BD3536	13mm Bosch Press-Fit	180 Units/Box		

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. 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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