

BD5020, BD5024, BD5036

50A AVALANCHE BOSCH TYPE PRESS-FIT DIODE

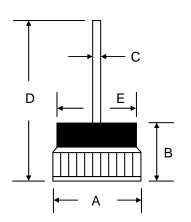


Features

- 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. BD5020R or BD5024R)
- 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





Anode +

13mm Bosch					
Dim	Min	Max			
Α	12.80	13.20			
В	9.40	_			
С	1.25	1.31			
D	28.00	_			
E	9.90	11.10			
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	BD5020	BD5024	BD5036	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	16	20	32	V
Average Rectified Output Current @T _C = 150°C		lo	50			Α
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 Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	500		А	
Forward Voltage	@I _F = 50A	VFM	1.0		V	
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C	IRM		200		nA
Typical Junction Capacitance (Note 1)		Cj	400		pF	
Typical Thermal Resistance (Note 2)		R JC	1.0		°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		
BD5020	13mm Bosch Press-Fit	180 Units/Box		
BD5024	13mm Bosch Press-Fit	180 Units/Box		
BD5036	13mm Bosch Press-Fit	180 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, BD5020-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.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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