

BD5020 & BD5024 🏭 🙌

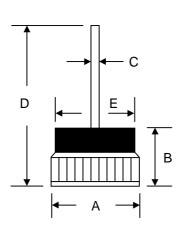
# 50A AVALANCHE BOSCH TYPE PRESS-FIT DIODE

### 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



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

Anode +

# Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=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	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	16	20	V
Average Rectified Output Current $@T_c = 150^{\circ}C$		lo	50		А
Breakdown Voltage Min. Breakdown Voltage Max.	@I <sub>R</sub> = 100mA @I <sub>R</sub> = 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	500		A
Forward Voltage	@I <sub>F</sub> = 50A	Vгм	1.	0	V
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	IRM	20	00	nA
Typical Junction Capacitance (Note 1)		Cj	400		pF
Typical Thermal Resistance (Note 2)		R	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	100 Units/Box	
BD5024	13mm Bosch Press-Fit	100 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, 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.

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