



50A BOSCH TYPE PRESS-FIT DIODE

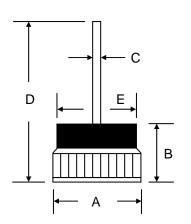


Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 5.0μA

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. BD5002R or BD5004R)
- 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					

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	BD5000	BD5001	BD5002	BD5003	BD5004	BD5005	BD5006	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	500	600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	350	420	V
Average Rectified Output Current @T _C = 150°C	lo	50						Α	
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 @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	5.0 500					μΑ		
Typical Junction Capacitance (Note 1)	Cl	400					pF		
Typical Thermal Resistance (Note 2)	R JC	1.0				°C/W			
Operating and Storage Temperature Range	TJ, TSTG			-	65 to +17	5			°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				
BD5000	13mm Bosch Press-Fit	180 Units/Box				
BD5001	13mm Bosch Press-Fit	180 Units/Box				
BD5002	13mm Bosch Press-Fit	180 Units/Box				
BD5003	13mm Bosch Press-Fit	180 Units/Box				
BD5004	13mm Bosch Press-Fit	180 Units/Box				
BD5005	13mm Bosch Press-Fit	180 Units/Box				
BD5006	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 2. number above. For example, BD5000-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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