

BD5000 - BD5006

50A BOSCH TYPE PRESS-FIT DIODE

Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 10μA

Mechanical Data

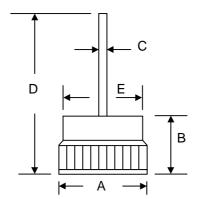
Case: Copper Case

Terminals: Contact Areas Readily Solderable

 Polarity: Cathode to Case(Reverse Units Are Available Upon Request and Are Designated By An "R" Suffix, i.e. BD5002R or BD5004R)

 Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity

Mounting Position: Any



13mm Bosch					
Dim	Min Max				
Α	12.90	13.06			
В	7.70	8.10			
С	1.25	1.31			
D	29.10	31.10			
Е	11.10	11.50			
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	٧
RMS Reverse Voltage		VR(RMS)	35	70	140	210	280	350	420	٧
Average Rectified Output Current @T _A = 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 = 100A	VFM	1.18			V				
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$		lгм	10 500					μΑ		
Typical Junction Capacitance (Note 1)		Cj	300					pF		
Typical Thermal Resistance Junction to Case (Note 2)		RθJC	1.2					K/W		
Operating and Storage Temperature Range		ТJ, Tsтg	-65 to +175					°C		

*Glass passivated forms are available upon request

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	Press Fit	100 Units/Tray
BD5001	Press Fit	100 Units/Tray
BD5002	Press Fit	100 Units/Tray
BD5003	Press Fit	100 Units/Tray
BD5004	Press Fit	100 Units/Tray
BD5005	Press Fit	100 Units/Tray
BD5006	Press Fit	100 Units/Tray

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

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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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We power your everyday.