

BD3500 – BD3506 🎎 🔁

# 35A BOSCH TYPE PRESS-FIT DIODE

Anode +

## 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. BD3502R or BD3504R)
- 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					

### 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	BD3500	BD3501	BD3502	BD3503	BD3504	BD3505	BD3506	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 <sub>c</sub> = 150°C	ю	35						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400					A		
Forward Voltage @I <sub>F</sub> = 35A	Vfm				1.0				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	5.0 500					μA		
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.

Product No.	Package Type	Shipping Quantity
BD3500	13mm Bosch Press-Fit	180 Units/Box
BD3501	13mm Bosch Press-Fit	180 Units/Box
BD3502	13mm Bosch Press-Fit	180 Units/Box
BD3503	13mm Bosch Press-Fit	180 Units/Box
BD3504	13mm Bosch Press-Fit	180 Units/Box
BD3505	13mm Bosch Press-Fit	180 Units/Box
BD3506	13mm Bosch Press-Fit	180 Units/Box

#### **ORDERING INFORMATION**

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, BD3500-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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