

# BD3500G - BD3506G

### 35A GLASS PASSIVATED BOSCH TYPE PRESS-FIT DIODE

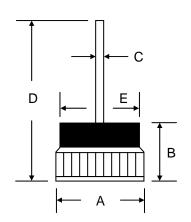


#### **Features**

- Glass Passivated Die Construction
- 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. BD3502GR or BD3504GR)
- 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	12.74	12.83			
В	8.20	8.45			
С	1.25	1.31			
D	28.00	_			
E	11.60	11.80			
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	BD 3500G	BD 3501G	BD 3502G	BD 3503G	BD 3504G	BD 3505G	BD 3506G	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 @Tc = 150°C	lo	35					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				400				А
Forward Voltage @I <sub>F</sub> = 35A	VFM				1.0				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	lгм	5.0 500					μΑ		
Typical Junction Capacitance (Note 1)	Cı	300					pF		
Typical Thermal Resistance (Note 2)	R JC	1.2				°C/W			
Operating and Storage Temperature Range	ТЈ, Тѕтс	-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
BD3500G	13mm Bosch Press-Fit	100 Units/Tray
BD3501G	13mm Bosch Press-Fit	100 Units/Tray
BD3502G	13mm Bosch Press-Fit	100 Units/Tray
BD3503G	13mm Bosch Press-Fit	100 Units/Tray
BD3504G	13mm Bosch Press-Fit	100 Units/Tray
BD3505G	13mm Bosch Press-Fit	100 Units/Tray
BD3506G	13mm Bosch Press-Fit	100 Units/Tray

- 1. 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, BD3500G-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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