

BD2500 – BD2506

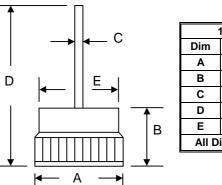
25A BOSCH TYPE PRESS-FIT DIODE

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. BD2502R or BD2504R)
- 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			
E	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	BD2500	BD2501	BD2502	BD2503	BD2504	BD2505	BD2506	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 _A = 150°C		ю	25					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 _F = 50A	Vfm	1.18				V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$		Iгм	10 500					μA		
Typical Junction Capacitance (Note 1)		Cj	300					pF		
Typical Thermal Resistance Junction to Case (Note 2)		R⊕JC	1.2					K/W		
Operating and Storage Temperature Range		TJ, TSTG	-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.

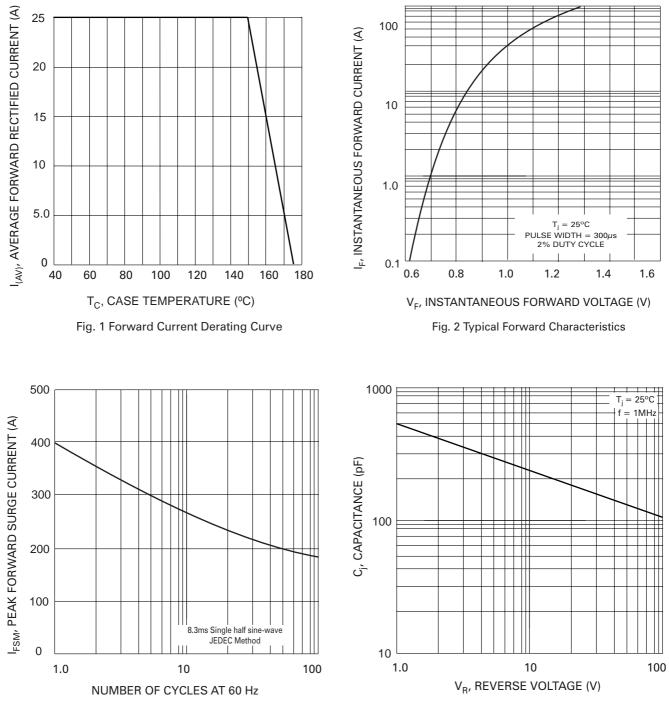
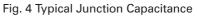


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity			
BD2500	Press Fit	100 Units/Tray			
BD2501	Press Fit	100 Units/Tray			
BD2502	Press Fit	100 Units/Tray			
BD2503	Press Fit	100 Units/Tray			
BD2504	Press Fit	100 Units/Tray			
BD2505	Press Fit	100 Units/Tray			
BD2506	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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