SEMICONDUCTOR

25A BOSCH TYPE PRESS-FIT DIODE

Data Sheet 2503 Rev.—

Features

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

Mechanical Data

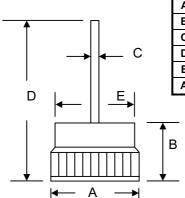
Case: Copper Case

• 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	0.508(12.9)	0.516(13.1)						
В	0.303(7.70)	0.319(8.10)						
С	0.049(1.25)	0.052(1.31)						
D	1.145(29.1)	1.224(31.1)						
Е	0.437(11.1)	0.453(11.5)						
All Dimensions in inch(mm)								

Maximum Ratings and Electrical Characteristics @TA=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		lo	25							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	400							Α
Forward Voltage @I _F = 50A		VFM	1.18							V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C		lгм	10 500							μΑ
Typical Junction Capacitance (Note 1)		Cj	300							pF
Typical Thermal Resistance Junction to Case (Note 2)		$R_{ heta}$ JC	1.2						K/W	
Operating and Storage Temperature Range		TJ, 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.