

LD3500 - LD3506

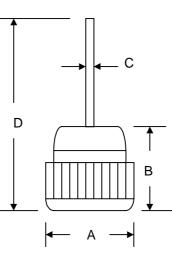
35A 10mm LUCAS TYPE PRESS-FIT DIODE

Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 20µA

Mechanical Data

- Case: All Copper Case and Components Hermetically Sealed
- Terminals: Contact Areas Readily Solderable
 Polarity: Cathode to Case(Reverse Units Are
- Available Upon Request and Are Designated By An "R" Suffix, i.e. LD3502R or LD3504R)
 Polarity: Red Color Equals Standard,
- Black Color Equals Reverse Polarity
- Mounting Position: Any



10mm Lucas					
Dim	Min	Max			
Α	10.13	10.18			
В	8.89	9.4			
С	1.27	1.35			
D	29.84	—			
All Dimensions in 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	LD3500	LD3501	LD3502	LD3503	LD3504	LD3505	LD3506	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 $@T_A = 150^{\circ}C$		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 _F = 80A	VFM	1.08			V				
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	Iгм	20 500					μA		
Typical Junction Capacitance (Note 1)		Cj	300					pF		
Typical Thermal Resistance Junction to Case (Note 2)		R _θ JC	1.0					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.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity				
LD3500	Press Fit	100 Units/Tray				
LD3501	Press Fit	100 Units/Tray				
LD3502	Press Fit	100 Units/Tray				
LD3503	Press Fit	100 Units/Tray				
LD3504	Press Fit	100 Units/Tray				
LD3505	Press Fit	100 Units/Tray				
LD3506	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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