

# **LD5000 - LD5006**

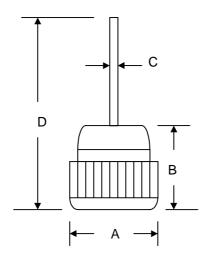
### **50A 10mm LUCAS TYPE PRESS-FIT DIODE**

#### **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. LD5002R or LD5004R)
- 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 @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	LD5000	LD5001	LD5002	LD5003	LD5004	LD5005	LD5006	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	200	300	400	500	600	٧
RMS Reverse Voltage		VR(RMS)	35	70	140	210	280	350	420	V
Average Rectified Output Current @T <sub>A</sub> = 150°C		lo	50					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	500						Α	
Forward Voltage @	I <sub>F</sub> = 100A	VFM	1.10				٧			
		lгм	20 500					μΑ		
Typical Junction Capacitance (Note 1)		Cj	300					pF		
Typical Thermal Resistance Junction to Case (Note 2)		RθJC	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
LD5000	Press Fit	100 Units/Tray
LD5001	Press Fit	100 Units/Tray
LD5002	Press Fit	100 Units/Tray
LD5003	Press Fit	100 Units/Tray
LD5004	Press Fit	100 Units/Tray
LD5005	Press Fit	100 Units/Tray
LD5006	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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