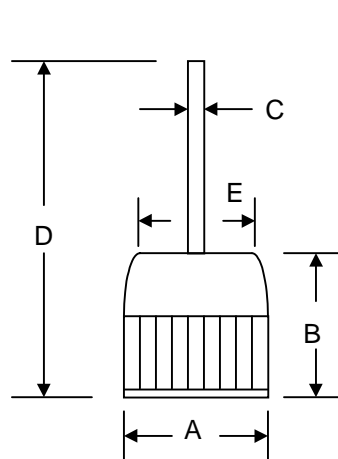


### Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 200nA

### Mechanical Data

- Case: 10mm Lucas 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. LD3520R or LD3524R)
- 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**



10mm Lucas		
Dim	Min	Max
A	10.07	10.16
B	8.20	8.60
C	1.25	1.31
D	26.00	—
E	9.40	9.60
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	LD3520	LD3524	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	16	20	V
Working Peak Reverse Voltage	V <sub>RWM</sub>			
DC Blocking Voltage	V <sub>R</sub>			
Average Rectified Output Current @T <sub>C</sub> = 150°C	I <sub>O</sub>	35		A
Breakdown Voltage Min. @I <sub>R</sub> = 100mA	V <sub>BR</sub>	20	24	V
Breakdown Voltage Max. @I <sub>R</sub> = 100mA		26	32	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	400		A
Forward Voltage @I <sub>F</sub> = 35A	V <sub>FM</sub>	1.0		V
Peak Reverse Current At Rated DC Blocking Voltage @T <sub>A</sub> = 25°C	I <sub>RM</sub>	200		nA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	300		pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>	1.2		°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-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
LD3520	10mm Lucas Press-Fit	320 Units/Box
LD3524	10mm Lucas Press-Fit	320 Units/Box

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, LD3520-LF.**

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

**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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*We power your everyday.*