

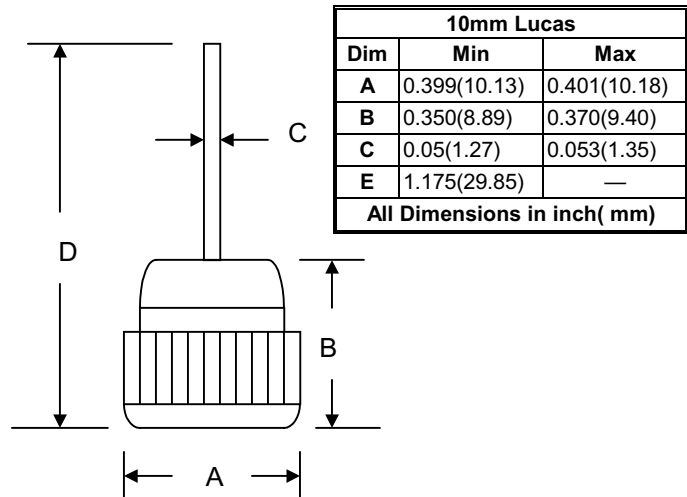
Data Sheet 2514 Rev.—

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. LD2502R or LD2504R)
- Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any



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	LD2500	LD2501	LD2502	LD2503	LD2504	LD2505	LD2506	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}	50	100	200	300	400	500	600	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	350	420	V
Average Rectified Output Current @T _A = 150°C	I _o	25							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	400							A
Forward Voltage @I _F = 50A	V _{FM}	1.05							V
Peak Reverse Current @T _A = 25°C	I _{RM}	20							μA
At Rated DC Blocking Voltage @T _A = 100°C		500							
Typical Junction Capacitance (Note 1)	C _j	300							pF
Typical Thermal Resistance Junction to Case (Note 2)	R _{θJC}	1.0							K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-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.