

An OSI Optoelectronics Company

# LS-1300 Series

#### **FEATURES**

- 1300nm Peak Wavelength
- Long Life
- **RoHS** Compliant
- **High Reliability**



#### DESCRIPTION

The LS-1300 Series are AlGaAs LEDs with peak wavelength of 1300nm. Available in a TO-46 lens cap and a TO-46 glob top. The lens cap have a narrow viewing angle.

#### **APPLICATIONS**

- . Home automation
- **Smart Appliances**
- Security / surveillances systems
- IR data transmission
- Sensor technology
- Remote control .
- **Consumer electronics**
- Industrial equipment applications
- Miniature photo interrupters
- Drive and control circuits .

Part No.	Forward DC Current [mA]	Reverse Voltage [V]	Operating Temperature [C]	Storage Temperature [C]	Package
LS-1300-017	100	E	-40 to +100	-40 to +125	Lens Cap
LS-1300-015	100	5	-40 to +85	-40 10 +125	Glob Top

#### > Electrical and Optical Characteristics

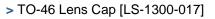
> Absolute Maximum Ratings

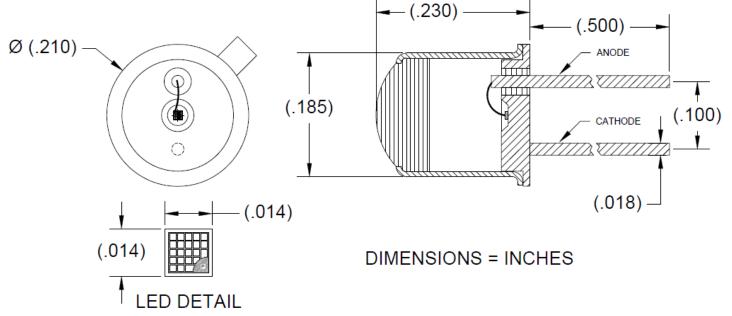
Typical Characteristics (T=23°C unless specified)								
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit		
Forward Voltage	$I_f = 20 \text{ mA}$	V <sub>F</sub>	-	0.85	1.05	v		
Forward Voltage	I <sub>f</sub> = 100 mA		-	0.95	1.15			
Peak Wavelength	I <sub>f</sub> = 20 mA	λ <sub>p</sub>	1270	1300	1330	nm		
Spectral Halfwidth	I <sub>f</sub> = 20 mA	Δλ	-	85	-	nm		
Radiant Power	I <sub>f</sub> = 20 mA	Φ <sub>e</sub>	0.6	0.8	-	mW		
	I <sub>f</sub> = 100 mA		-	3.5	-			
Switching Time	l <sub>f</sub> = 20 mA, Rise	t <sub>r</sub>	-	25	-	ns		
	l <sub>f</sub> = 20 mA, Fall	t <sub>f</sub>	-	40	-			

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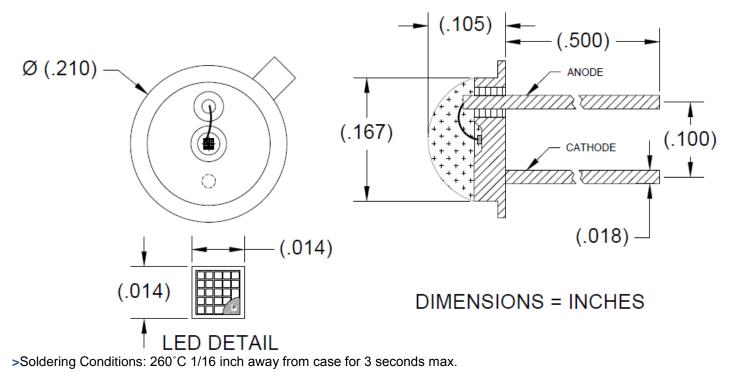


## LS-1300Series





> TO-46 Glob Top [LS-1300-015]



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## **MATERIALS SAFETY**

This product is free of conflict minerals and meets REACH compliance. Please see website for reports.