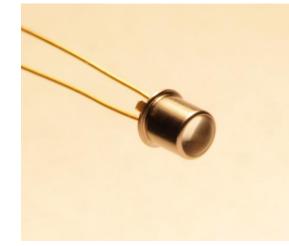


An OSI Optoelectronics Company

# LS-0810 Series

## **FEATURES**

- 810nm Peak Wavelength
- Long Life
- **RoHS** Compliant
- **High Reliability**



## DESCRIPTION

The LS-0810 Series are AlGaAs LEDs with peak wavelength of 810nm. 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

## > Absolute Maximum Ratings

Part No.	Forward DC Current [mA]	Reverse Voltage [V]	Operating Temperature [C]	Storage Temperature [C]	Package
LS-0810-017	100	5	-40 to +100	-40 to +125	Lens Cap
LS-0810-015	100		-40 to +85	-40 10 +125	Glob Top

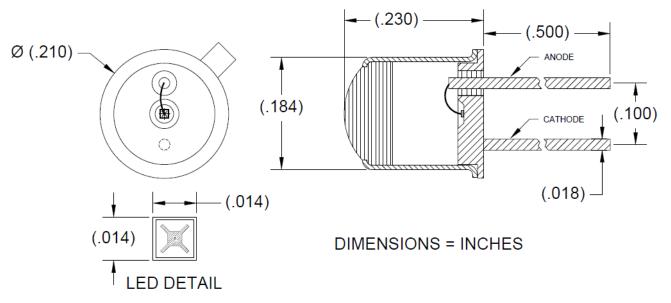
## > Electrical and Optical Characteristics

Typical Characteristics (T=23°C unless specified)									
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit			
Forward Voltage	l <sub>f</sub> = 20 mA	V <sub>F</sub>	-	1.6	1.9	V			
Peak Wavelength	I <sub>f</sub> = 20 mA	λ <sub>p</sub>	805	810	820	nm			
Spectral Halfwidth	I <sub>f</sub> = 20 mA	Δλ	-	27	-	nm			
Radiant Power	I <sub>f</sub> = 20 mA	Φ <sub>e</sub>	2.5	3.2	-	mW			
Switching Time	I <sub>f</sub> = 20 mA, Rise	t <sub>r</sub>	-	45	-				
Switching Time	I <sub>f</sub> = 20 mA, Fall	t <sub>f</sub>	-	30	-	ns			

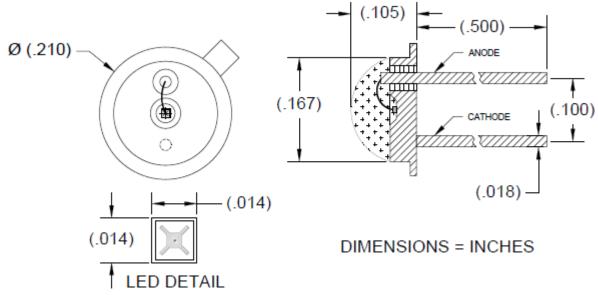
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# LS-0810Series

> TO-46 Lens Cap [LS-0810-017]



> TO-46 Glob Top [LS-0810-015]



>Soldering Conditions: 260°C 1/16 inch away from case for 3 seconds max.

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# **MATERIALS SAFETY**

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