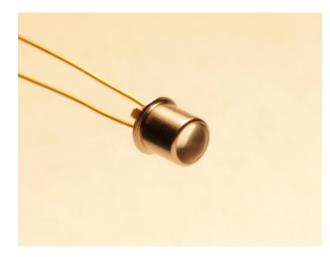


An OSI Optoelectronics Company

LS-0905 Series



FEATURES

- 905nm Peak Wavelength
- Long Life
- **RoHS** Compliant
- **High Reliability**

DESCRIPTION

The LS-0905 Series are AlGaAs LEDs with peak wavelength of 905nm. 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-0905-017	100	5	-40 to +100	-40 to +125	Lens Cap
LS-0905-015	100		-40 to +85	-40 10 +120	Glob Top

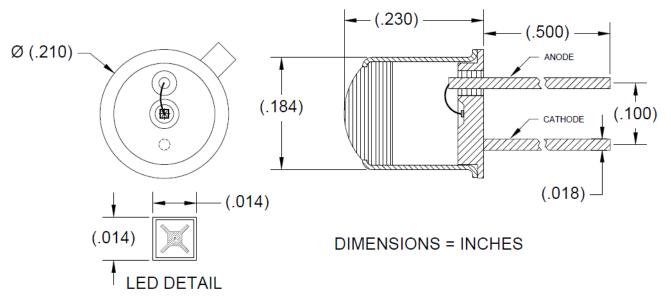
> Electrical and Optical Characteristics

Typical Characteristics (T=23°C unless specified)								
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit		
Forward Voltage	$I_f = 20 \text{ mA}$	V _F	-	1.3	1.5	V		
Peak Wavelength	l _f = 20 mA	λ _p	895	905	915	nm		
Spectral Halfwidth	l _f = 20 mA	Δλ	-	55	-	nm		
Radiant Power	l _f = 20 mA	Φ _e	3	4	-	mW		
Switching Time	l _f = 20 mA, Rise	t _r	-	400	-			
Switching rine	l _f = 20 mA, Fall	t _f	-	400	-	ns		

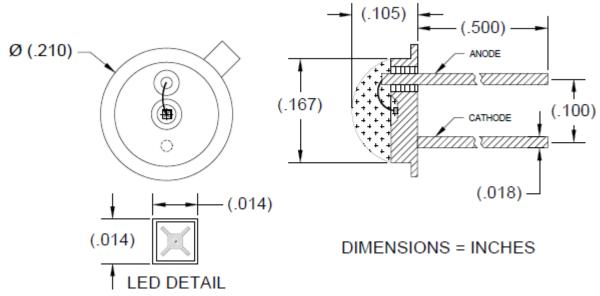
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LS-0905Series

> TO-46 Lens Cap [LS-0905-017]



> TO-46 Glob Top [LS-0905-015]



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

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