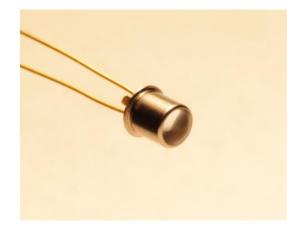


An OSI Optoelectronics Company

LS-1050 Series

FEATURES

- 1050nm Peak Wavelength
- Long Life
- **RoHS** Compliant
- **High Reliability**



DESCRIPTION

The LS-1050 Series are AlGaAs LEDs with peak wavelength of 1050nm. 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

Forward DC **Operating Temperature** Storage Temperature Reverse Part No. Package Current [mA] Voltage [V] [C] [C] LS-1050-017 -40 to +100 Lens Cap -40 to +125 100 5 -40 to +85 LS-1050-015 Glob Top

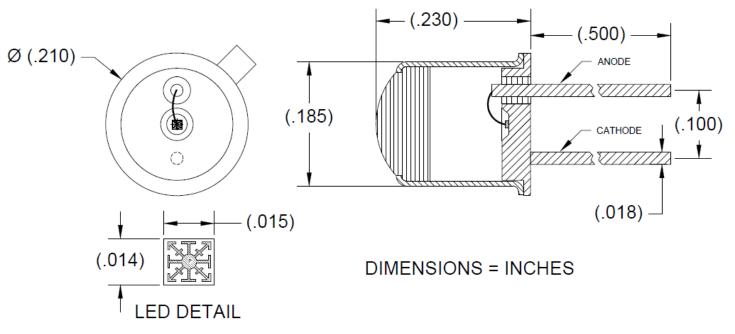
> Electrical and Optical Characteristics

> Absolute Maximum Ratings

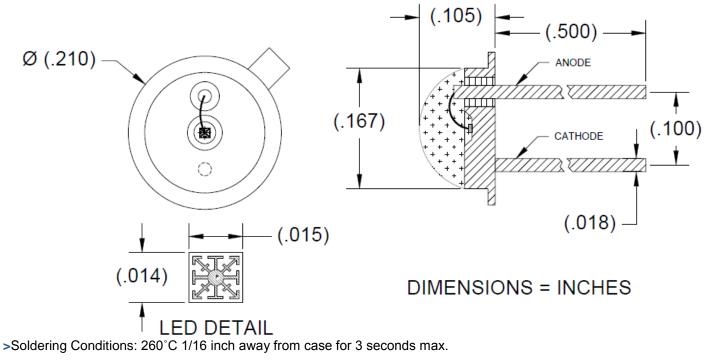
Typical Characteristics (T=23°C unless specified)						
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit
Forward Voltage	I _f = 20 mA	V _F	-	1.15	1.3	V
	I _f = 100 mA		-	1.25	1.4	
Reverse Current	V _R =5 V	I _R	-	-	10	μA
Peak Wavelength	I _f = 20 mA	λ _p	1030	1050	1070	nm
Spectral Halfwidth	I _f = 20 mA	Δλ	-	80	-	nm
Radiant Power	I _f = 20 mA	Φ _e	-	4.5	-	mW
Switching Time	I _f = 20 mA, Rise	t _r	-	20	-	ns
	I _f = 20 mA, Fall	t _f	-	20	-	

LS-1050Series

> TO-46 Lens Cap [LS-1050-017]



> TO-46 Glob Top [LS-1050-015]



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MATERIALS SAFETY

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