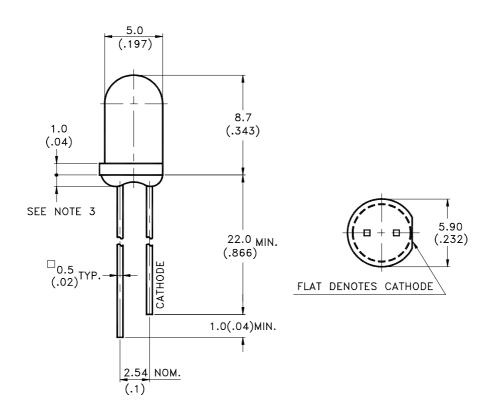
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * High luminous intensity output.
- * Low power consumption.
- * High efficiency.
- * Versatile mounting on P.C. board or panel.
- * I.C. Compatible/low current requirements.
- * Popular T-13/4 diameter.

Package Dimensions



Part No.	Lens	Source Color
LTL2P3QFK-021A	Water Clear	AlInGaP Yellow Orange

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

Part No.: LTL2P3QFK-021A Page: of 5

LITEON ELECTRONICS, INC.

Property of Lite-On Only

Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating	Unit			
Power Dissipation	120	mW			
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	90	mA			
Continuous Forward Current	50	mA			
Derating Linear From 50°C	0.6	mA/°C			
Reverse Voltage	5	V			
Operating Temperature Range	-40°C to + 100°C				
Storage Temperature Range	-55°C to + 100°C				
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds				

Part No.: LTL2P3QFK-021A Page: 2 of 5



LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	320	1000		mcd	$I_F = 20 \text{mA}$ Note 1
Viewing Angle	2 θ 1/2		22		deg	Note 2 (Fig.5)
Peak Emission Wavelength	λР		611		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd		605		nm	Note 4
Spectral Line Half-Width	Δλ		17		nm	
Forward Voltage	V_{F}		2.0	2.4	V	$I_F = 20 \text{mA}$
Reverse Current	I _R			100	μ A	$V_R = 5V$
Capacitance	С		40		pF	$V_F = 0$, $f = 1MHz$

NOTE: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. Iv classification code is marked on each packing bag.
- 4. The dominant wavelength, λ d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Part No.: LTL2P3QFK-021A Page: of 5 Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

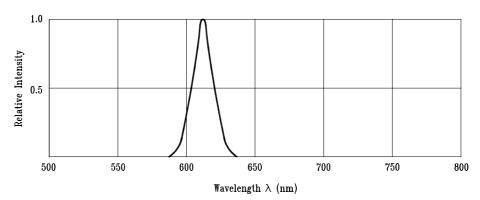
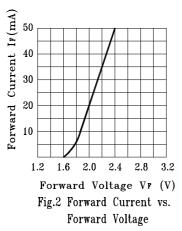
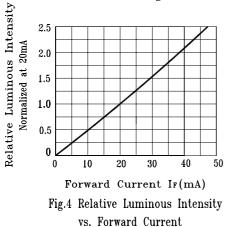
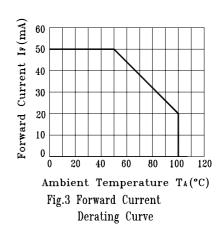


Fig.1 Relative Intensity vs. Wavelength







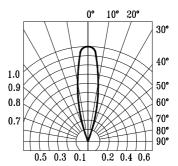


Fig.5 Spatial Distribution

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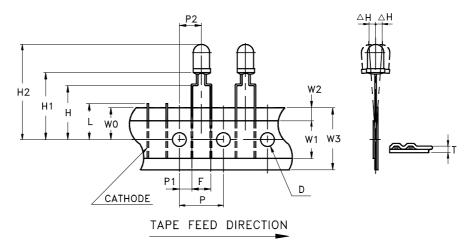
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * Compatible with radial lead automatic insertion equipment.
- * Most radial lead plastic lead lamps available packaged in tape and folding.
- * 5mm (0.197") formed lead spacing available.
- * Folding packaging simplifies handling and testing.

Package Dimensions



		Specification				
Item	Symbol	Mini	mum	Maxii	num	
		MM	INCH	MM	INCH	
Tape Feed Hole Diameter	D	3.8	0.149	4.2	0.165	
Component Lead Pitch	F	4.8	0.188	5.8	0.228	
Front to Rear Deflection	$\triangle H$			2.0	0.078	
Height of Seating Plane	Н	15.5	0.610	16.5	0.649	
Feed Hole to Bottom of Component	H1	22.5	0.886	24.5	0.965	
Feed Hole to Overall Component Height	H2	30.9	1.216	33.5	1.319	
Lead Length After Component Height	L	W0 11.0		0.433		
Feed Hole Pitch	P	12.4	0.488	13.0	0.511	
Lead Location	P1	3.15	0.124	4.55	0.179	
Center of Component Location	P2	5.05	0.198	7.65	0.301	
Total Tape Thickness	T			0.90	0.035	
Feed Hole Location	W0	8.5	0.334	9.75	0.384	
Adhesive Tape Width	W1	12.5	0.492	13.5	0.531	
Adhesive Tape Position	W2	0	0	3.0	0.118	
Tape Width	W3	17.5	0.689	19.0	0.748	

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