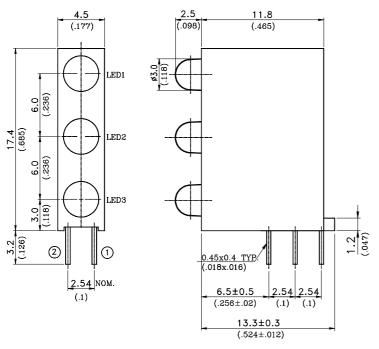


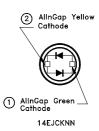
Property of Lite-On Only

Features

- * Designed for ease in circuit board assembly.
- * Black case enhance contrast ratio.
- * Solid state light source.
- * Reliable and rugged.

Package Dimensions





	①	2
4236N	Green Cathode	Green Anode
1 4EJCKNN	AllnGap Green Cathode	AlinGap Yellow Cathode
4231N	Green Cathode	Green Anode

Lamp Part No.	Lens	Source Color
LTL-4236N	Water clear	Green
LTL14EJCKNN	Water clear	AllnGap Amber Yellow AllnGap Green
LTL-4231N	Green Diffused	Green

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. The holder color is black.
- 4. The LED1 lamp is LTL-4236N

The LED2 lamp is LTL14EJCKNN

The LED3 lamp is LTL-4231N.

5. Specifications are subject to change without notice.

Part No.: LTL-42M2NH59PR Page: of 6



Property of Lite-On Only

Absolute Maximum Ratings at Ta=25℃

Parameter	Green	Amber Yellow	Green	Unit			
	(FOR 4236N,4231N)	(FOR 14EJCKNN)	(FOR 14EJCKNN)				
Power Dissipation	100	75	75	mW			
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	60	60	mA			
Continuous Forward Current	30	30	30	mA			
Derating Linear From 50°C	0.4	0.4	0.4	mA/°C			
Reverse Voltage (Note 1)	5	5	5	V			
Operating Temperature Range	-55°C to + 100°C	-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.: LTL-42M2NH59PR Page: of 6



Property of Lite-On Only

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	LTL-4236N LTL-4231N	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity		Green	19	60		mcd	$I_F = 10 \text{mA}$	
Editifious intensity	Iv	Green	3.7	12.6			Note 1,4	
Viewing Angle	2 θ _{1/2}	Green		45		deg	Note 2 (Fig.6)	
Viewing Pangle	2 0 1/2	Green		60		ucg	(-300)	
Peak Emission Wavelength	3	Green		565		nm	Measurement	
reak Ellission wavelength	λp	Green		565		nm	@Peak (Fig.1)	
Dominant Wavelength	λd	Green		569		nm	Note 3	
Dominant wavelength		Green		569		11111		
Spectral Line Half-Width	Δλ	Green		30		nm		
Spectral Line Hall-Width		Green		30		11111		
Forward Voltage	V_{F}	Green		2.1	2.6	V	$I_F = 20 \text{mA}$	
Polward Voltage		Green		2.1	2.6	V	Ir — ZUIIIA	
Reverse Current	I_R	Green			100	μΑ	VI- EVI	
Reverse Current		Green			100	μ Λ	$V_R = 5V$	
Capacitance		Green		35		рF	$V_F = 0$, $f = 1MHz$	
	С	Green		35		L1	v _F - 0, 1 - 11VIIIZ	

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. The dominant wavelength, λ d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4. Iv needs $\pm 15\%$ additionary for guaranteed limits.

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Property of Lite-On Only

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	LTL14EJCKNN	Min.	Тур.	Max.	Unit	Test Condition		
Luminous Intensity	Iv	Amber Yellow	30	85		mcd	$I_F = 20 \text{mA}$		
Daminous intensity	1V	Green	38	110			Note 1,4		
X7:i A1	2.0	Amber Yellow				1	Note 2 (Fig.6)		
Viewing Angle	2 \theta 1/2	Green		60		deg	11016 2 (F1g.0)		
Dook Emission Wavelength	ĵ	Amber Yellow		595		nm	Measurement		
Peak Emission Wavelength	λр	Green		574		nm	@Peak (Fig.1)		
D ' 177 1 1	λd	Amber Yellow		592		nm	Note 3		
Dominant Wavelength		Green		571		nm			
Spectral Line Half-Width	Δλ	Amber Yellow		15		****			
		Green		11		nm			
Eastward Valtage	VF	Amber Yellow		2.05	2.4	V	$I_F = 20 \text{mA}$		
Forward Voltage		Green		2.1	2.4	V	IF – ZUIIIA		
Reverse Current	IR	Amber Yellow			100	A			
		Green			100	μ A	$V_R = 5V$, Note 5		
Capacitance		Amber Yellow		40		рF	$V_F = 0$, $f = 1MHz$		
Сараспансе	С	Green		40		РГ	v _F - 0 , 1 - 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. The dominant wavelength, λ d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4. Iv needs $\pm 15\%$ additionary for guaranteed limits.
- 5. Reverse current is controlled by dice source.

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Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

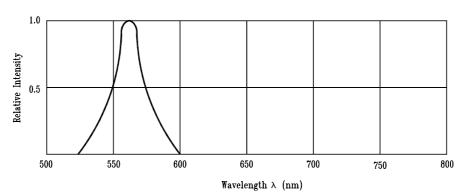


Fig.1 Relative Intensity vs. Wavelength

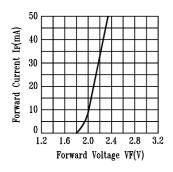


Fig.2 Forward Current vs. Forward Voltage

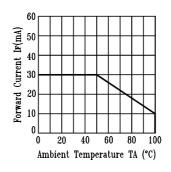


Fig.3 Forward Current Derating Curve

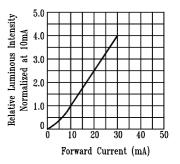


Fig.4 Relative Luminous Intensity vs. Forward Current

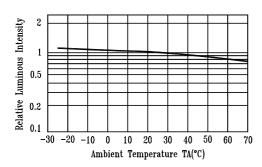


Fig.5 Luminous Intensity vs. Ambient Temperature

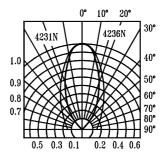


Fig.6 Spatial Distribution

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Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

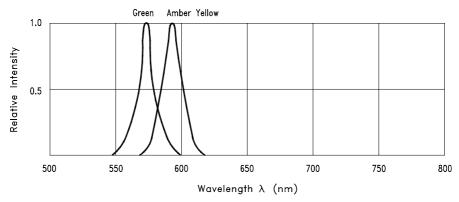
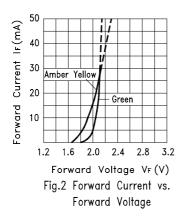
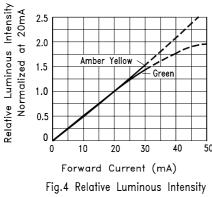
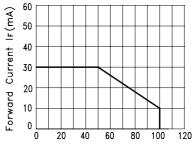


Fig.1 Relative Intensity vs. Wavelength





vs. Forward Current



Ambient Temperature TA(°C) Fig.3 Forward Current Derating Curve

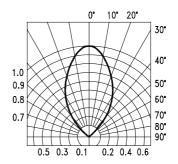


Fig.5 Spatial Distribution

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