LUCKY LIGHT

Preliminary

LL-256AGM2J-001

DATA SHEET

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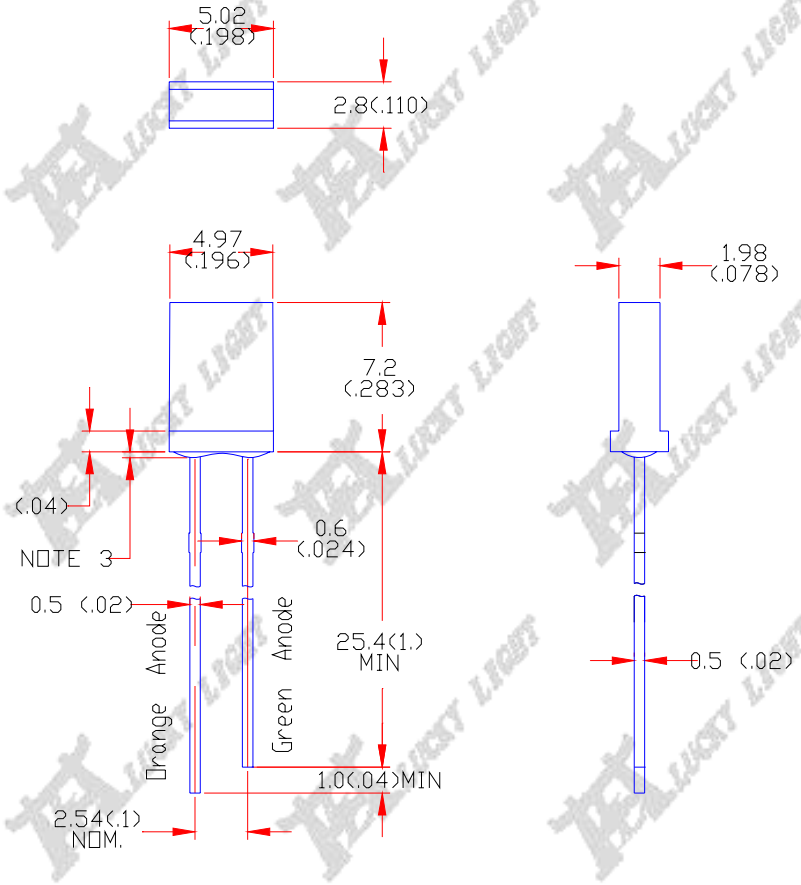
Features:

- 2x5mm rectangular package
- General purpose leads
- Pb-free

Package Dimensions:



Part NO.	Chip Material		Lens Color	Emission Color
LL-256AGM2J-001	Orange	Green	Water Clear	Orange & Green
	GaAsP	GaP		

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (.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.
6. This data-sheet only valid for six months.

Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.		Unit
Power Dissipation	Orange	90	mW
	Green	130	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100		mA
Continuous Forward Current	Orange	35	mA
	Green	50	
Derating Linear From 50℃	0.4		mA/℃
Reverse Voltage	5		V
Operating Temperature Range	-30℃ to +80℃		
Storage Temperature Range	-40℃ to +100℃		
Lead Soldering Temperature [4mm(.157") From Body]	280℃ for 5 Seconds		

Electrical Optical Characteristics at Ta=25℃

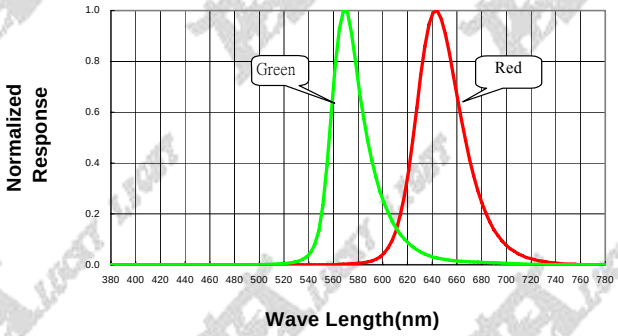
Parameter	Symbol	Emitting Color	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	Orange	19	40		mcd	I_F=20mA Note 1
		Green	4	9			
Viewing Angle	$2\theta_{1/2}$	Orange	170	180		Deg	Note 2
		Green	170	180			
Peak Emission Wavelength	λp	Orange	563	568	573	nm	I_F=20mA
		Green	635	640	645		
Dominant Wavelength	λd	Orange	565	570	575	nm	I_F=20mA Note 3
		Green	625	630	635		
Spectral Line Half-Width	△λ	Orange	25	30	35	nm	I_F=20mA
		Green	35	40	45		
Forward Voltage	V_F	Orange	1.7	2.2	2.6	V	I_F=20mA
		Green	1.6	2.0	2.5		
Reverse Current	I_R	Orange			10	μA	V_R=5V
		Red					

Note:

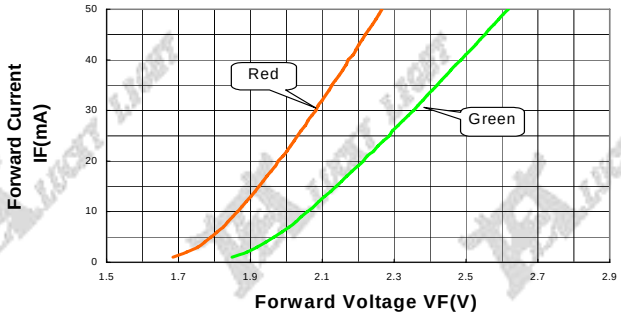
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength(λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. Forward voltage measurement allowance is ±0.1V
5. Luminous Intensity Measurement Allowance is ±10%

Typical Electrical / Optical Characteristics Curves
(25℃ Ambient Temperature Unless Otherwise Noted)

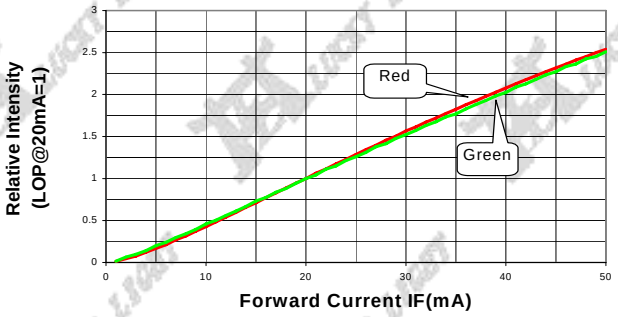
Spectral Radiance Green Peak @ 568nm
Red Peak @ 640nm



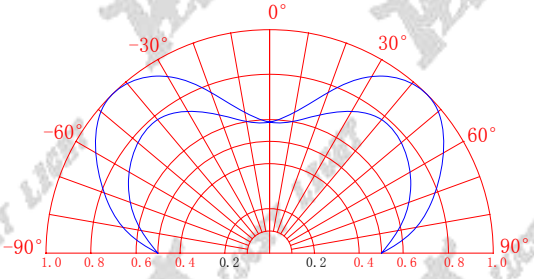
Forward Current
vs Forward Voltage



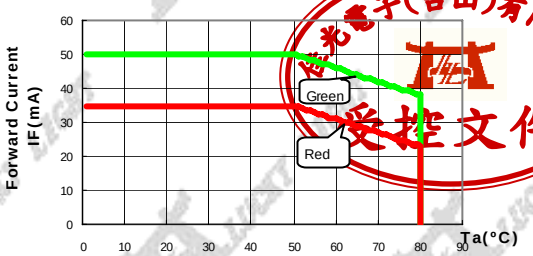
Relative Luminous Intensity
vs Forward Current



Beam Pattern



Forward Cureent
Derating Curve



Part No.	LL-256AGM2J-001	Spec No.	S/N-08091811	Page	5 of 5