

LL-204ID2A

DATA SHEET

QC: ENG: Prepared By:

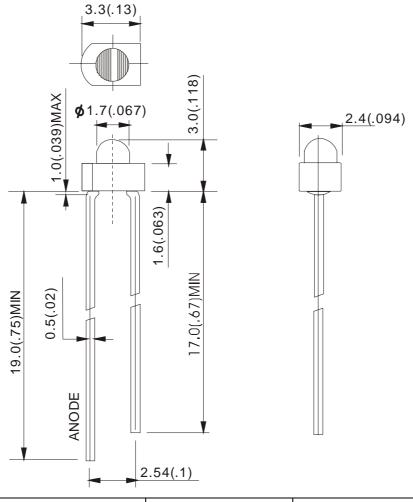
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Features

- ♦ Tower type pack
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color
LL-204ID2A-I1	Red Diffused	Hi-Eff Red

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(.010")$ mm 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

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Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	50	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	,
Storage Temperature Range	-40°C to +80°C	,
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seco.	nds

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	18	26		mcd	I _F =20mA (Note 1)
Viewing Angle	2 H _{1/2}	45	50	55	Deg	(Note 2)
Peak Emission Wavelength	λρ		644		mA	I _F =20mA
Dominant Wavelength	λd		632		nm	I _F =20mA (Note 3)
Spectral Line Half-Width	Δλ		42		nm	I _F =20mA
Forward Voltage	V_{F}		2.0	2.8	V	I _F =20mA
Reverse Current	I_R			100	μΑ	V _R =5V

Note:

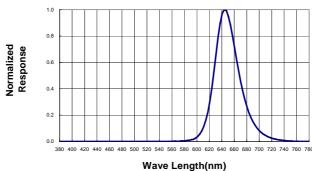
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

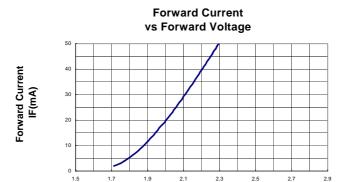
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Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)







Relative Luminous Intensity vs Forward Current

Forward Voltage VF(V)

