

LL-203ID1K

DATA SHEET

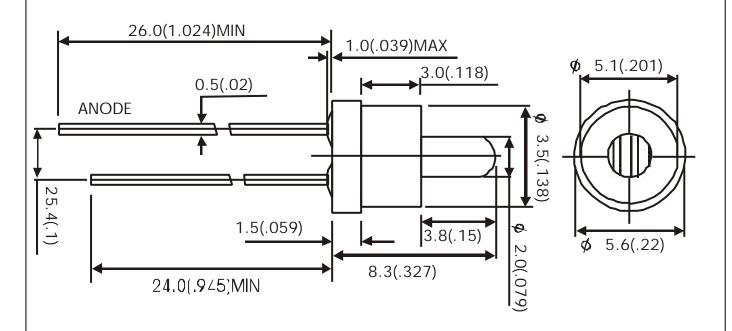
QC: ENG: Prepared By:



Features

- ♦ High intensity
- ♦ Normal tower type pack
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO. Chip Material		Lens Color	Source Color		
LL-203ID1K	GaAsP	Red Diffused	Orange		

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	35	mA	
Derating Linear From 50	0.4	mA/	
Reverse Voltage	5	V	
Operating Temperature Range	-40 to +80		
Storage Temperature Range	-40 to +80		
Lead Soldering Temperature [4mm(.157") From Body]	260 for 5 Seconds		

Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	lv	2700	3200		μcd	I _F =20mA (Note 1)	
Viewing Angle	2 1/2		150		Deg	(Note 2)	
Peak Emission Wavelength	р	625	630	635	nm	I _F =20mA	
Dominant Wavelength	d	615	620	625	nm	I _F =20mA (Note 3)	
Spectral Line Half-Width		15	20	25	nm	I _F =20mA	
Forward Voltage	V_{F}	1.6	2.05	2.5	V	I _F =20mA	
Reverse Current	I _R			100	μA	V _R =5V	

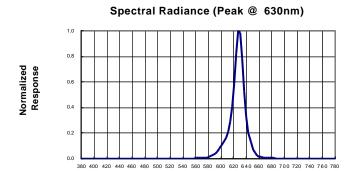
Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. ? $_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength(? 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? Ambient Temperature Unless Otherwise Noted)



Wave Length(nm)

