LL-253GD2F-006

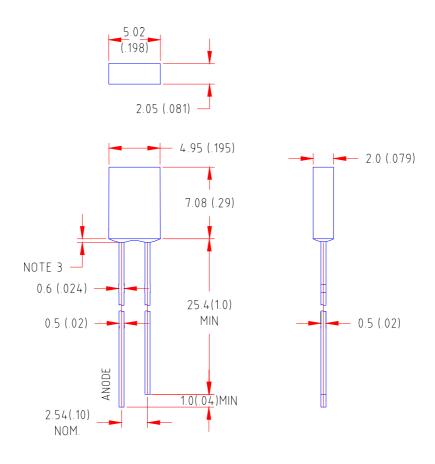
DATA SHEET

QC: ENG: Prepared By:

Features

- ♦ 2x5mm rectangular package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Chip Material	Lens Color	Source Color	
LL-253GD2F-002	GaP	Green Diffused	Green	

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.
- **6.** This data-sheet only valid for six months.

Part No.	LL-253GD2F-006	Spec No.	S/N-02041009D	Page	2 of 4
----------	----------------	----------	---------------	------	---------------

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	0.4	mA/	
Reverse Voltage	5	٧	
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

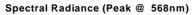
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	lv	5	8	18	mcd	I=20mA (Note 1)	
Viewing Angle	2 1/2	130	135	140	Deg	(Note 2)	
Peak Emission Wavelength	р	563	568	573	nm	I=20mA	
Dominant Wavelength	d	565	570	576	nm	I=20mA (Note 3)	
Spectral Line Half-Width		24	29	34	nm	I==20mA	
Forward Voltage	V _F	1.7	2.2	2.6	V	I==20mA	
Reverse Current	I R			100	μΑ	V _R =5V	

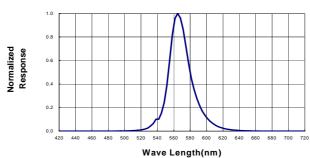
Note:

- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $_{1/2}$ 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.

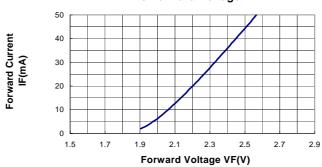
Part No.	LL-253GD2F-006	Spec No.	S/N-02041009D	Page	3 of 4
----------	----------------	----------	---------------	------	---------------

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

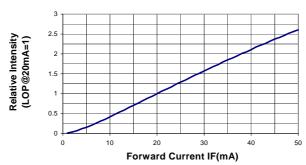




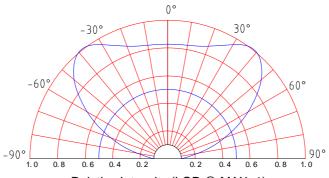
Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern



Relative Intensity (LOP @ MAX=1)