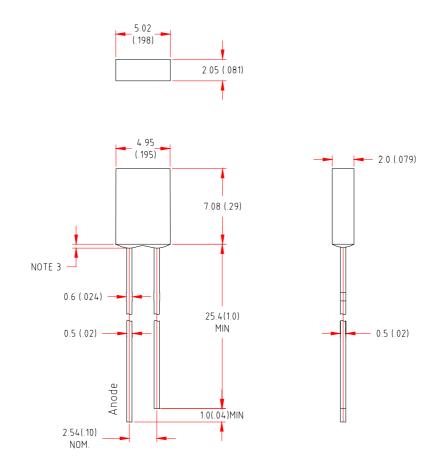


Version:1.0

Features:

- 2x5mm rectangular package
- General purpose leads
- Reliable and rugged

Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color	
LL-253HD2F-004	GaP	Red Diffused	Red	

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.

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Absolute Maximum Ratings at Ta=25

Parameter	MAX.	Unit		
Power Dissipation	140	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	V		
Operating Temperature Range	-40 to +80)		
Storage Temperature Range	-40 to +80	-40 to +80		
Lead Soldering Temperature [4mm(.157") From Body]	260 for 5 Se	260 for 5 Seconds		

Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	١v	0.5	1	2.5	mcd	I:=20mA (Note 1)
Viewing Angle	2 1/2	135	145	155	Deg	(Note 2)
Peak Emission Wavelength	р	695	700	705	nm	Ir=20mA
Dominant Wavelength	d	630	635	640	nm	I=20mA (Note 3)
Spectral Line Half-Width		85	90	95	nm	Ir=20mA
Forward Voltage	V _f	1.8	2.35	2.8	V	Ir=20mA
Reverse Current	R			100	μA	V _R =5V

Notes:

- 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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