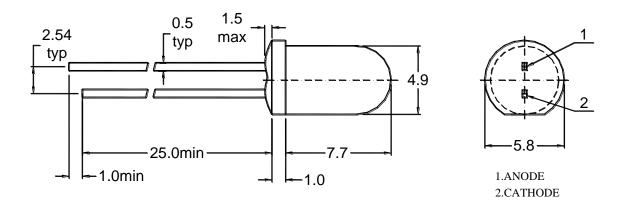
DATA SHEET for LED

LG50332

RoHS

Part No.	LG50332			
Emitted Color		Lens Color	Chip Material	
Green		Water Diffused	GaP	

Package Dimensions :



Note:

- 1. All dimensions are in millimeters(mm)
- 2. Tolerance is ±0.25mm unless otherwise noted
- 3. Protruded resin under flange is 1.5mm Max LED.

Absolute Maximum Rating (Ta = 25 ℃)

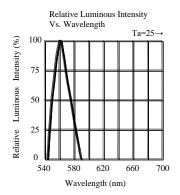
Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	Pd	60	mW
Pulse Forward Current (Duty 1/10 @ 1kHz)	I_{FP}	70	mA
Continuous Forward Current	\mathbf{I}_{F}	20	mA
Reverse Voltage	V_R	6	V
Operation Temperature	Topr	−30°C ~85°C	$^{\circ}\!\mathbb{C}$
Storage Temperature	Tstg	−40°C ~100°C	$^{\circ}\!\mathbb{C}$
Soldering Temperature	Tsol	260±5	$^{\circ}\!\mathbb{C}$

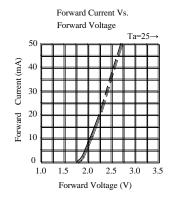
Note : Soldering Time ≤5 seconds

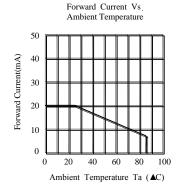
Electron-Optical Characteristics (Ta = 25 ℃)

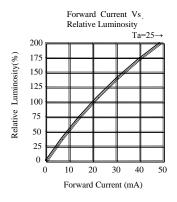
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv		20		mcd	I _F =20 mA
Forward Voltage	V_{F}		2.2	2.5	V	I _F =20 mA
Reverse Current	I_R			50	μΑ	V _R =6V
Dominant Wavelength	λ_{d}		568		nm	I _F =20 mA
Peak Emission Wavelength	λ_p		572		nm	I _F =20 mA
Spectral Line Half Width	Δλ		30		nm	I _F =20 mA
Viewing Angle	201/2		100		deg	I _F =20 mA

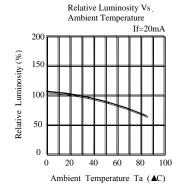
Typical Electro-Optical Characteristic Curves:

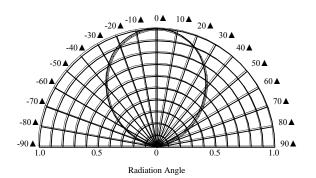












Reliability Test Items and Conditions

Test Item	Test Conditions	Duration	Sample	Ac/Re
Temperature Cycle	-40°C(30 min.) ~ 25°C(5 min.) ~ 100°C(30 min.) ~ 25°C(5 min.)	50 clycles	100	0/1
High Temp. Storage	Ta=100°C	1,000 hours	100	0/1
Temp. & Humidity Test	Ta=85°C RH=85%	1,000 hours	100	0/1
Low Temp. Storage	Ta=-40°C	1,000 hours	100	0/1
Operating Life Test	Ta=25±5℃ DC IF=20mA	1,000 hours	100	0/1
Solder Heat	Tsol=260±5℃, 10s	1 time	20	0/1

Precautions In Use

A. Soldering Conditions

1. Maximum allowable soldering conditions are

Solder dipping : 260 $^{\circ}$ C max., 5 seconds max., one time. Soldering iron : 350 $^{\circ}$ C max., 5 seconds max., one time.

2. In soldering, do not put any stress on the lead frame, particularly when heated.

B. Lead frame Forming and Use

- 1. When mounting the LEDs onto a printed circuit board ,the holes on the circuit board should be exactly aligned with the leads of the LEDs.
- 2. Please avoid conditions which may cause the LED to corrode, tarnish or discolor. This corrosion or discoloration may cause difficulty during soldering operations. It is recommended that the LEDs be used as soon as possible.
- 3. Please avoid rapid transitions in ambient temperature, especially, in high humidity environments.

Notes:

- 1. Above specification may be changed without notice. We will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for the specification sheets. We assume no responsibility for any damage resulting from use of the product which does not comply with the instructions included in the specification sheets.