

SHARP

GL3BC402B0S1

GL3GC402B0S1

Under development

New product



High-Luminosity LED Lamp

ø3 mm High-Luminosity Blue/Green LED Lamp

Viewing angle : 40 °

Features

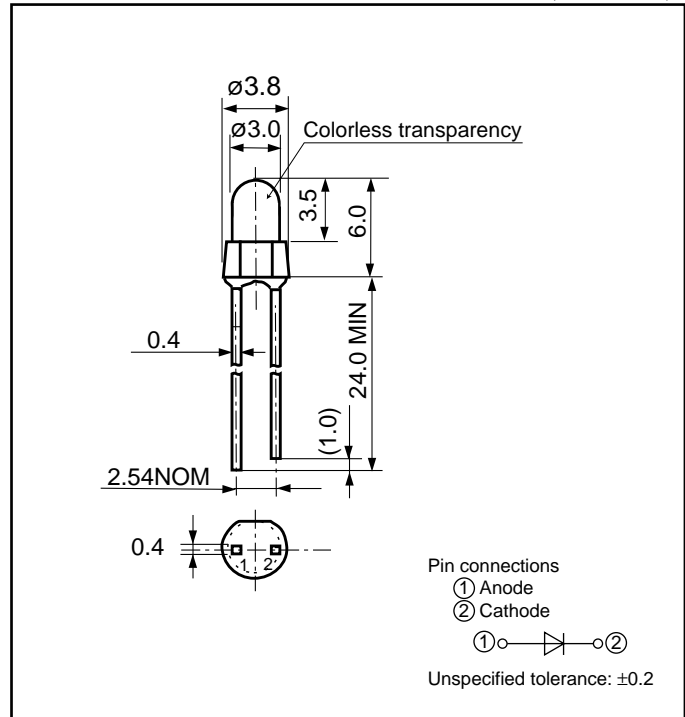
- (1) ø3 mm high-luminosity LED lamp
- (2) Emitting color : Blue / Green
- (3) Mounts directly on the substrate
- (4) Wide viewing angle (2θ 1/2) : 40 °

Applications

- (1) Amusement equipment
- (2) Information boards for outdoor use
- (3) Road signs and road studs

Outline Dimensions

(Unit : mm)



Absolute Maximum Ratings

(Ta=25 °C)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current IF (mA)	Peak forward current IFM*1 (mA)	Derating factor (mA/°C)		Reverse voltage VR (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)	Soldering temperature Tsol*2 (°C)
						DC	Pulse				
GL3BC402B0S1	Blue	InGaN	132	30	100	0.40	1.33	5	-20 to +80	-25 to +100	260
GL3GC402B0S1	Green	InGaN	132	30	100	0.40	1.33	5	-20 to +80	-25 to +100	260

*1 Duty ratio=1/10, Pulse width=0.1ms

*2 5 s or less (At the position of 1.6mm or more from the bottom face of resin package)

Electro-optical Characteristics

(IF=20 mA, Ta=25 °C)

Lens type	Model No.	Forward voltage VF (V)		Peak emission wavelength λp (nm) TYP	Dominant wavelength λd (nm) TYP	Luminous intensity Iv (mcd) TYP	Spectrum radiation bandwidth Δλ (nm) TYP	Reverse current	
		TYP	MAX					IR (μA) MAX	VR (V)
Colorless transparency	GL3BC402B0S1	3.7	4.4	465	470	450	26	10	4
	GL3GC402B0S1	3.7	4.4	520	525	1 800	36	10	4

(Notice)

- In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.
- Specifications are subject to change without notice for improvement.
(Internet)
- Data for Sharp's optoelectronic is provided on internet. (Address <http://sharp-world.com/ecg/>)

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