SHARP

GL5BC302B0S1
GL5GC302B0S1

Under development	
New product	●

Super-Luminosity LED Lamp

ø5 mm Super-Luminosity Blue/Green LED Lamp

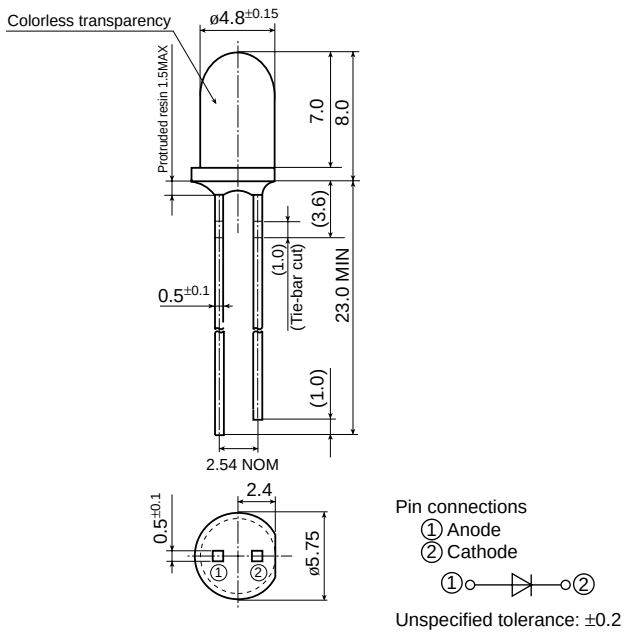
Viewing angle : 20 ˚

■ Features

(1) ø5 mm high-luminosity LED lamp
(2) Emitting color : Blue / Green
(3) Wide viewing angle (2θ 1/2) : 20 ˚

■ Outline Dimensions

(Unit : mm)



■ Applications

(1) Amusement equipment
(2) AV equipment

■ Absolute Maximum Ratings

(Ta=25 ˚C)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current I_F (mA)	Peak forward current I_{FM}*1 (mA)	Derating factor (mA/˚C) DC	Derating factor (mA/˚C) Pulse	Reverse voltage V_R (V)	Operating temperature T_{opr} (˚C)	Storage temperature T_{stg} (˚C)	Soldering temperature T_{sol}*2 (˚C)
GL5BC302B0S1	Blue	InGaN	132	30	100	0.40	1.33	5	-20 to +80	-25 to +100	260
GL5GC302B0S1	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

(I_F=20 mA,Ta=25 ˚C)

Lens type	Model No.	Forward voltage V_F (V) TYP	Forward voltage V_F (V) MAX	Peak emission wavelength λp (nm) TYP	Dominant wavelength λd(nm) TYP	Luminous intensity I_V(mcd) TYP	Spectrum radiation bandwidth Δλ(nm) TYP	Reverse current I_R(μA) MAX	Reverse current V_R (V)
Colorless transparency	GL5BC302B0S1	3.7	4.4	468	470	700	26	100	4
	GL5GC302B0S1	3.7	4.4	520	525	1 700	36	100	4

(Notice)
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(Internet)
•Data for Sharp's optoelectronic is provided on internet. (Address http://sharp-world.com/ecg/)

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