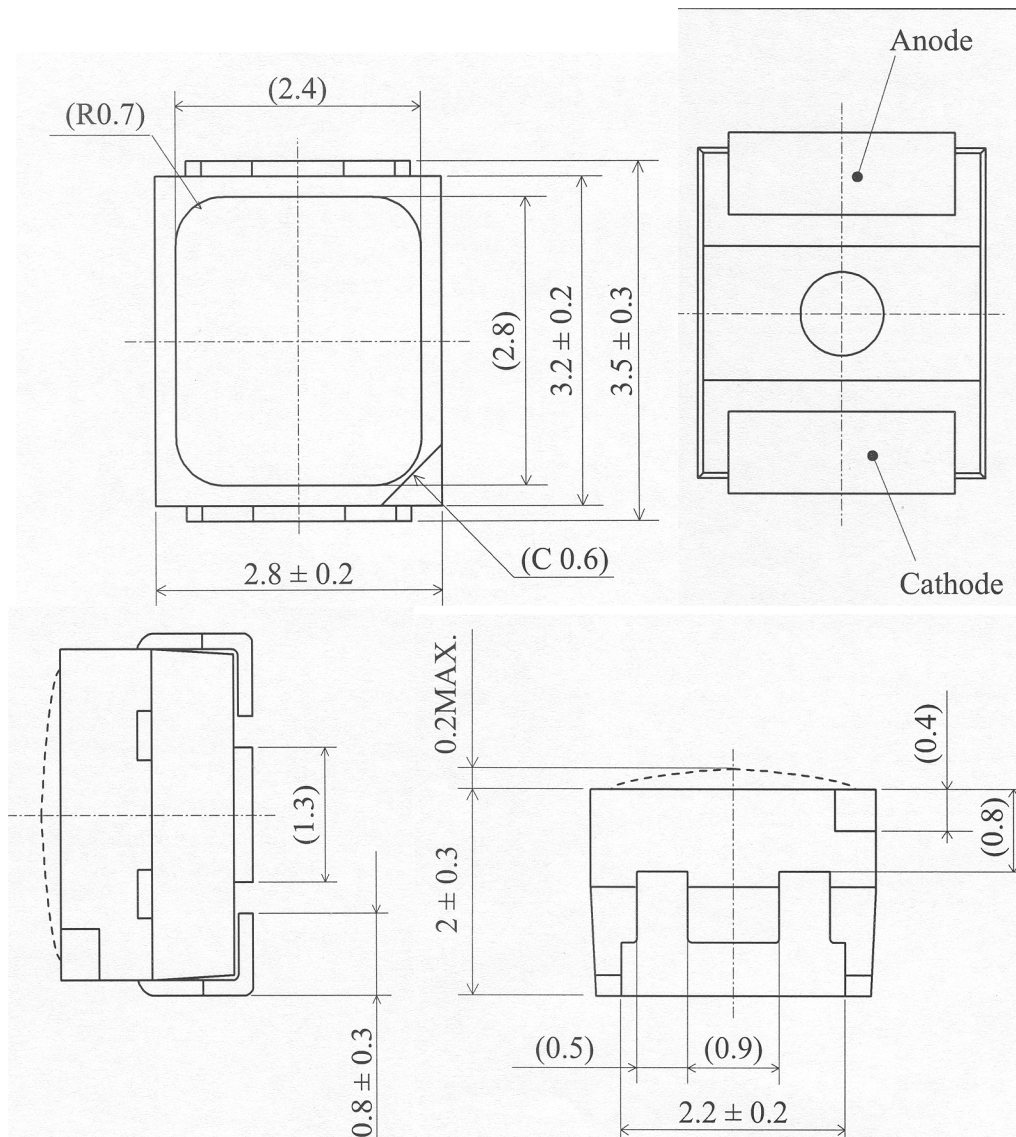


## GHB-PLCC-BG2



## 1. SPECIFICATIONS

### (1) Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	30	mA
Pulse Forward Current	IFP	100	mA
Allowable Reverse Current	IR	85	mA
Power Dissipation	PD	120	mW
Operating Temperature	Topr	-40 ~ + 85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature	Tsld	Reflow Soldering : 240°C for 10sec. Dip Soldering : 260°C for 10sec. Hand Soldering : 300°C for 3sec.	

IFP Conditions : Pulse Width  $\leq$  10msec. and Duty  $\leq$  1/10

### (2) Initial Electrical/Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
Forward Voltage	VF	IF=20[mA]	-	3.5	4.0	V	
Luminous Intensity	Rank T	IV	IF=20[mA]	560	640	780	mcd
	Rank S	IV	IF=20[mA]	390	460	560	mcd
	Rank R	IV	IF=20[mA]	280	320	390	mcd
	Rank Q	IV	IF=20[mA]	195	230	280	mcd

\* Measurement Uncertainty of the Luminous Intensity :  $\pm$  10%

### Color Ranks

(IF=20mA, Ta=25°C)

Rank D					Rank E				Rank F					
x	0.05	0.05	0.13	0.13	x	0.06	0.06	0.14	0.14	x	0.09	0.09	0.17	0.17
y	0.48	0.58	0.58	0.48	y	0.55	0.65	0.65	0.55	y	0.60	0.72	0.72	0.60

\* Measurement Uncertainty of the Color Coordinates :  $\pm$  0.012

\* One delivery will include up to two consecutive color ranks and three luminous intensity ranks of the products.

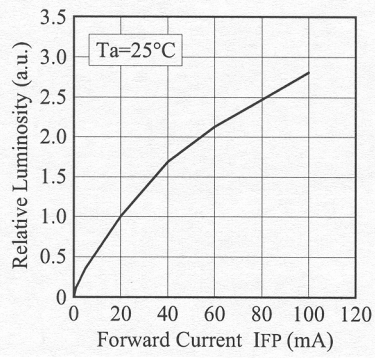
The quantity-ratio of the ranks is decided by Nichia.

### Correspondence table of Color Coordinates - Luminous Intensity ranks

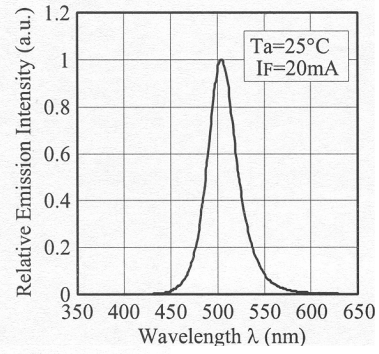
Ranking by Color Coordinates	Ranking by Luminous Intensity	Q	R	S	T
D					
E					
F					

\* Shaded ranks are available.

■ Forward Current vs. Relative Luminosity



■ Spectrum



■ Forward Voltage vs. Forward Current

