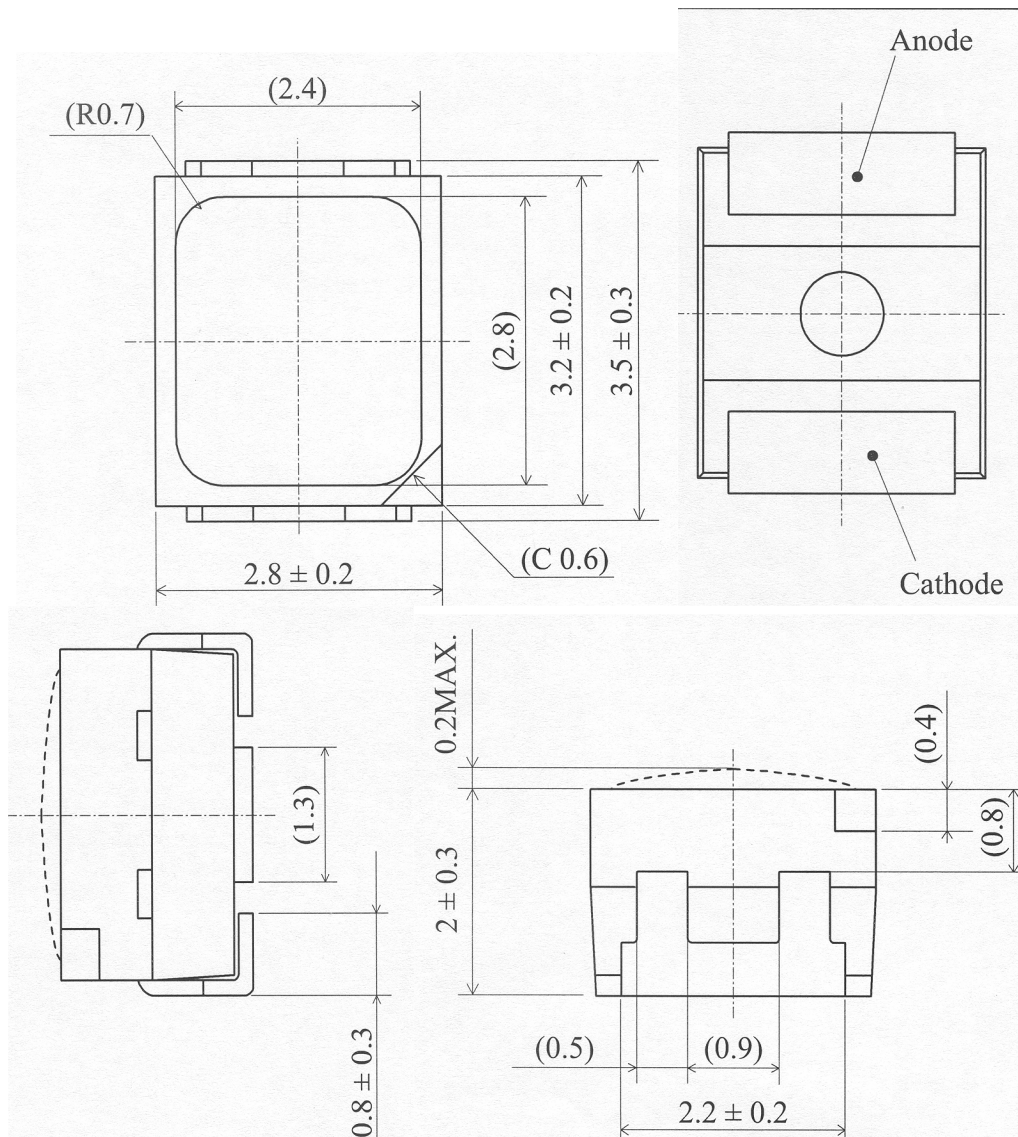


## GHB-PLCC-CW3



## 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]	-	3.6	4.0	V	
Luminous Intensity	Rank S	IV	IF=20[mA]	500	600	720	mcd
	Rank R	IV	IF=20[mA]	360	430	500	mcd
	Rank Q	IV	IF=20[mA]	250	300	360	mcd

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

#### Color Ranks

(IF=20mA, Ta=25°C)

	Rank a0			
x	0.280	0.264	0.283	0.296
y	0.248	0.267	0.305	0.276

	Rank b1			
x	0.287	0.283	0.330	0.330
y	0.295	0.305	0.360	0.339

	Rank b2			
x	0.296	0.287	0.330	0.330
y	0.276	0.295	0.339	0.318

	Rank c0			
x	0.330	0.330	0.361	0.356
y	0.318	0.360	0.385	0.351

\* Measurement Uncertainty of the Color Coordinates :  $\pm$  0.01

\* 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.

## 2.TYPICAL INITIAL OPTICAL/ELECTRICAL CHARACTERISTICS

Please refer to figure's page.

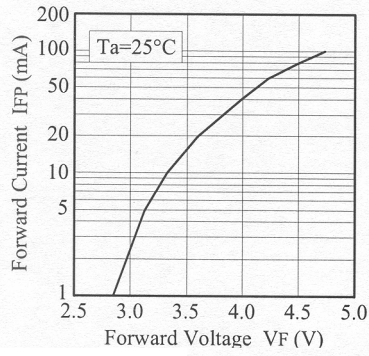
## 3.OUTLINE DIMENSIONS AND MATERIALS

Please refer to figure's page.

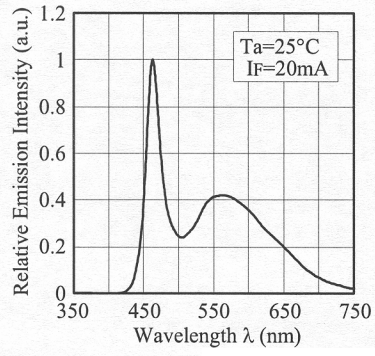
Material as follows ;

Package	:	Heat-Resistant Polymer
Encapsulating Resin	:	Epoxy Resin (with YAG Phosphor)
Electrodes	:	Ag Plating Copper Alloy

■ Forward Voltage vs. Forward Current



■ Spectrum



■ Forward Current vs. Relative Luminosity

