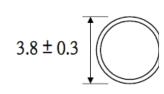


SPECIFICATIONS

CLB30B2R2CCC

OUTLINES DIMENSIONS



- 1. Red 2.Common-Cathode 3.Blue
- 2.95 ± 0.2 5.3 ± 0.3 1 MAX. 27.5 MIN. 22.54 2.54

Notes:

- 1. All Dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25mm (0.01") unless otherwise noted.
- 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle		
CLB30B2R2CCC	InGaN/InGaAIP	Blue/Red	Water Clear	20°		





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max F	Unit	
Parameter		Blue	Red	Offic
Power Dissipation	Pb	100	100	mW
Pulse Current Forward Current	lfP	95	60	mA
Continuous Forward Current	lF	30	50	mA
Reverse Voltage	VR	5	5	V
Operating Temperature Range	Topr	-20~+80	-40~+85	°C
Storage Temperature Range	Тѕтс	-30~+100	-40~+85	°C

IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

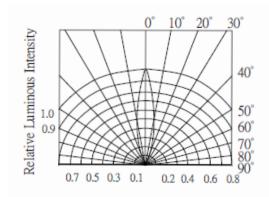
Doromotor	Symbol	Test Condi- tion	Color	Value			l limit
Parameter				Min	Тур	Max	Unit
uminous Intonsity	lv	I _F = 20mA	Blue	-	2000	-	mcd
Luminous Intensity			Red	ı	1200	-	
Forward Voltage	VF	I _F = 20mA	Blue	-	3.2	3.8	V
Forward Voltage			Red	-	2.0	2.4	
Poverse Leekage Current	lR	V _R = 5V	Blue	ı	-	10	μΑ
Reverse Leakage Current			Red	-	-	10	
liouring Anglo	201/2	I _F = 20mA	Blue	ı	20	-	deg
Viewing Angle			Red	-	20	-	
Dominant Wayalangth	λD	I _F = 20mA	Blue	-	470	-	nm
Dominant Wavelength			Red	1	625	-	

^{*}Tolerance of viewing angle: -10 / +5 deg.

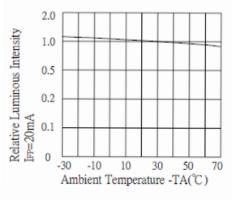




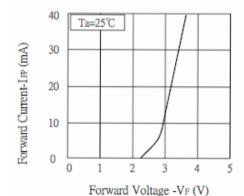
OPTICAL CHARACTERISTIC CURVES (BLUE)



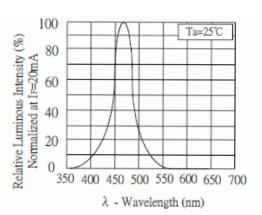
RADIATION DIAGRAM



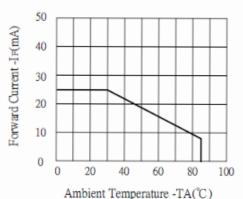
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



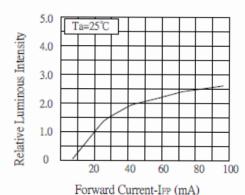
FORWARD CURRENT Vs. FORWARD VOLTAGE



RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE

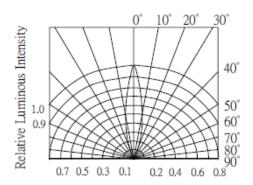


LUMINOUS INTENSITY
Vs. FORWARD CURRENT

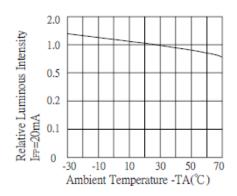




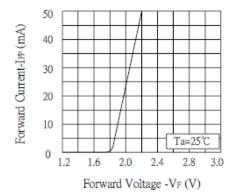
OPTICAL CHARACTERISTIC CURVES (RED)



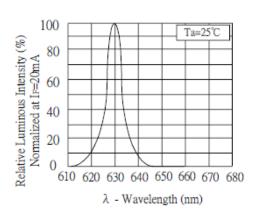
RADIATION DIAGRAM



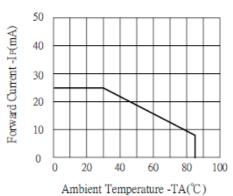
LUMINOUS INTENSITY
Vs. AMBIENT TEMPERATURE



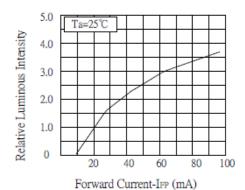
FORWARD CURRENT Vs. FORWARD VOLTAGE



RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



LUMINOUS INTENSITY
Vs. FORWARD CURRENT





SOLDERING CONDITIONS – LAMP TYPE LED

- * Solder the LED no closer than 3mm from the base of the epoxy bulb. Soldering beyond the base of the tie bar is recommended.
- * Recommended soldering conditions

Dip Soldering				
Pre-Heat	100 °C Max			
Pre-Heat Time	60 Second Max			
Solder Bath Temperature	260 °C Max			
Dippng Time	5 Second Max			
Dipping Position	No lower than 3mm from the base of the epoxy			

Hand Soldering					
	3mm Series	Others			
Temperature Soldering Time Position	300 °C Max 3 Second Max No closer than 3mm from the base of the epoxy	350 °C Max 3 Second Max No closer than 3mm from the base of the epoxy			

- * Do not apply any stress to the lead. Particularly when heated.
- * The LED must not be repositioned after soldering.
- * After soldering the LEDs, the epoxy bulb should be protected from mechanical shock or vibration until the LEDs return to room temperature.
- * Direct soldering onto a PC board should be avoided. Mechanical stress to the resin may be caused by the PC board warping or from the clinching and cutting of the leadframes. When it is absolutely necessary, the LEDs may be mounted in this fashion, but, the user will assume responsibility for any problems. Direct soldering should only be done after testing has confirmed that no damage, such as wire bond failure or resin deterioration, will occur. LEDs should not be soldered directly to double sided PC boards because the heat will deteriorate the epoxy resin.
- * When it is necessary to clamp the LEDs to prevent soldering failure, it is important to minimize the mechanical stress on the LEDs.
- * Cut the LED leadframes at room temperature. Cutting the leadframes at high temperature may cause LED failure.

