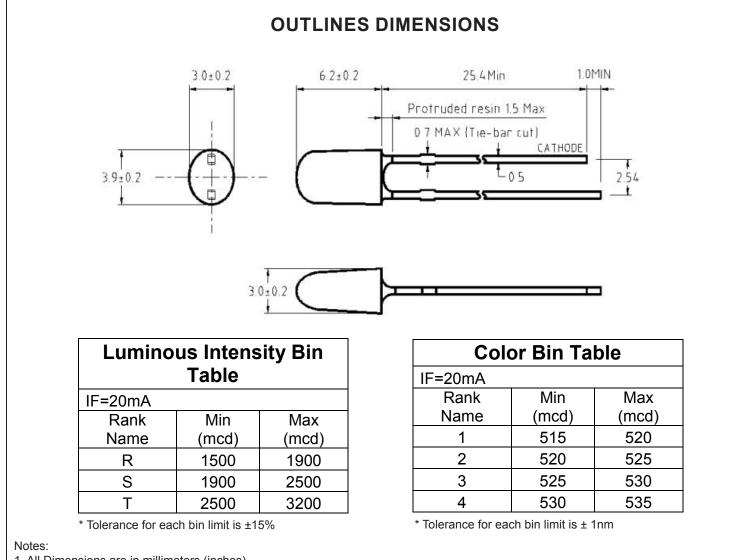


SPECIFICATIONS

CLV43GT2D-70



1. All Dimensions are in millimeters (inches).

2. Tolerance is \pm 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
CLV43GT2D-70	InGaN	Pure Green	Green Diffused	70/40°





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	114	mW
Pulse Current Forward Current	I _{FP}	100	mA
Continuous Forward Current	IF	30	mA
Reverse Voltage	VR	5.0	V
Operating Temperature Range	T _{OPR}	-30 ~ +85	°C
Storage Temperature Range	T _{STG}	-40 ~ +100	٥°
I_{FP} = Pulse Width \leq 10 ms, Duty Ratio \leq 1/10. Soldering Condition: 260 °C/ 5sec			

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

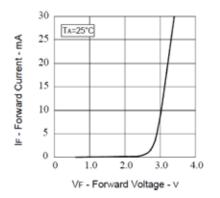
Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	I⊧= 20mA	2500	4500		mcd
Forward Voltage	VF	I _F = 20mA		3.2	3.8	V
Reverse Leakage Current	IR	V _R = 5V			50	μA
Viewing Angle	201/2	I _F = 20mA		70/40°		deg.
Peak Wavelength	λP	I⊧= 20mA		518		nm
Dominant Wavelength	λD	I _F = 20mA	515	525	535	nm
Spectral Line half-width	Δλ	I _F = 20mA		30		nm

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



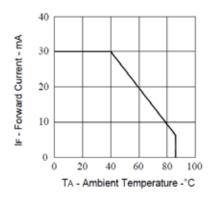


OPTICAL CHARACTERISTIC CURVES

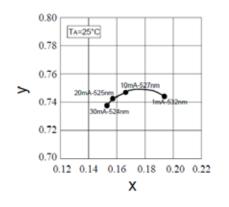


Forward Current vs.Forward Voltage

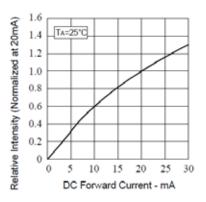
Forward Current vs.Ambient Temperature



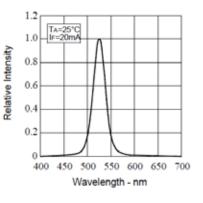
Forward Current vs.Chromaticity Coordinate



Relative Intensity vs.Forward Current



Relative Intensity vs.Wavelength







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.

