

L200CWRGB1K-4A-IL

Green/Red/Blue

5mm, Flanged Cylindrical, 8.7mm Height

60° viewing angle

DWG BY:

BL / GP

10-10-06

CHK BY:

PL

08-20-07

QA:

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MFG:

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REVISION LTR: -

08-20-07

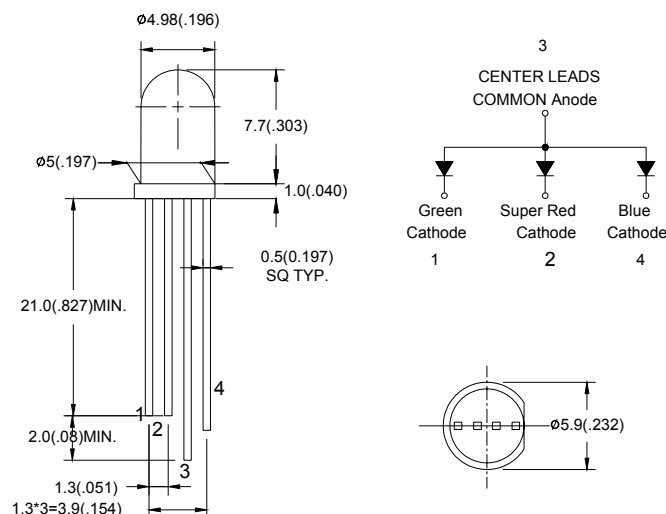
● Features:

1. Chip material: AlInGaN (Green) and AlGaInP/GaAs (Red) and AlInGaN(Blue)
2. Emitted color : Green and Super Red and Super Blue
3. Lens Appearance : Water Clear
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 5mm diameter package
9. This product is RoHS compliant.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Package dimensions:



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (0.01") unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

● Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Green	Super Red	Super Blue	Unit
Power Dissipation	Pd	120	100	120	mW
Forward Current	I _F	30	30	30	mA
Peak Forward Current* ¹	I _{FP}	150	150	150	mA
Reverse Voltage	V _R	5			V
Operating Temperature	Topr	-40°C ~ 80°C			
Storage Temperature	Tstg	-40°C ~ 85°C			
Soldering Temperature	Tsol	260°C (for 5 seconds)			

*¹Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

● **Electrical and optical characteristics(Ta=25°C)**

Parameter	Symbol	Condition	Color	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =20mA	Green Red Blue	-	3.3 2.0 3.2	4.0 2.6 4.0	V
Luminous Intensity	I _v	I _F =20mA	Green Red Blue	-	2000 915 400	-	mcd
Reverse Current	I _R	V _R =5V	Green Red Blue	-	-	100	μA
Peak Wave Length	λ _p	I _F =20mA	Green Red Blue	-	518 632 461	-	nm
Dominant Wave Length	λ _d	I _F =20mA	Green Red Blue	- - -	525 623 467	- - -	nm
Spectral Line Half-width	Δλ	I _F =20mA	Green Red Blue	-	35 19 28	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	Green Red Blue	-	60	-	deg
Chromaticity Coordinates	X	I _F =20mA	Green	-	0.16	-	
	Y			-	0.71	-	
Chromaticity Coordinates	X	I _F =20mA	Red	-	0.69	-	
	Y			-	0.30	-	
Chromaticity Coordinates	X	I _F =20mA	Blue	-	0.13	-	
	Y			-	0.06	-	

● **Typical Electro-Optical Characteristics Curves**

