



LIGITEK

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ROUND TYPE LED LAMPS



Lead-Free Parts

LEG14162/S1-PF

DATA SHEET

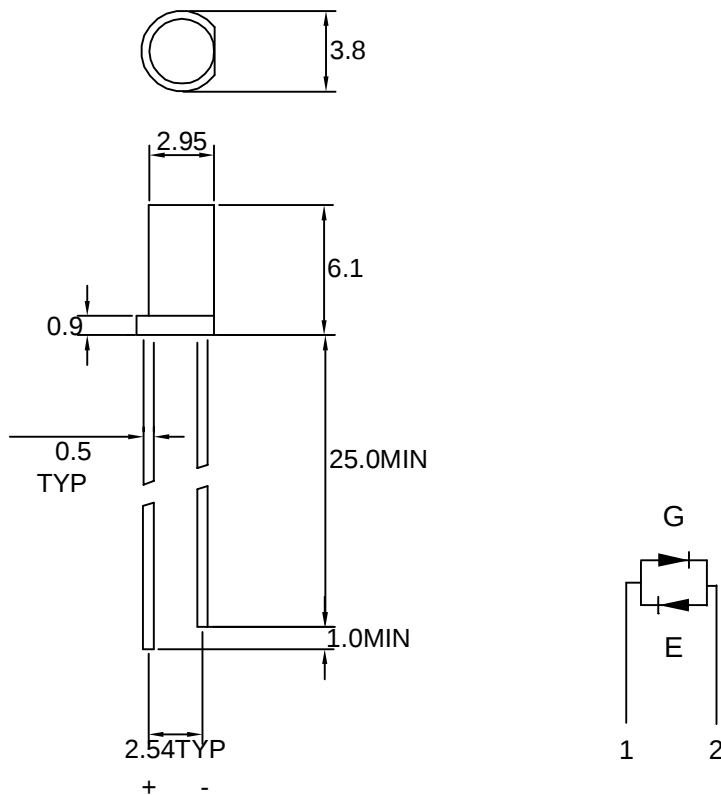
DOC. NO : QW0905-LEG14162/S1-PF

REV. : A

DATE : 19 - Mar. - 2008

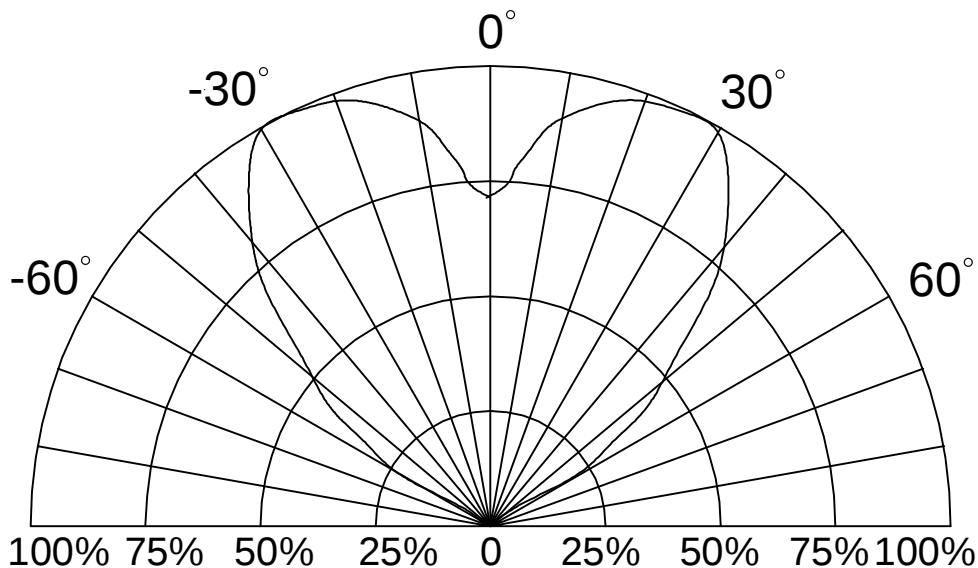


Package Dimensions



Note : 1.All dimension are in millimeter tolerance is $\pm 0.25\text{mm}$ unless otherwise noted.
2.Specifications are subject to change without notice.

Directivity Radiation





Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Ratings		UNIT
		E	G	
Forward Current	IF	30	30	mA
Peak Forward Current Duty 1/10@10KHz	IFP	120	120	mA
Power Dissipation	PD	100	100	mW
Reverse Current @5V	Ir	10		μA
Operating Temperature	Topr	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +100		°C

Typical Electrical & Optical Characteristics (Ta=25 °C)

PART NO	MATERIAL	COLOR		Peak wave length λ Pnm	Spectral halfwidth $\Delta \lambda$ nm	Forward voltage @20mA(V)		Luminous intensity @10mA(mcd)		Viewing angle 2 θ 1/2 (deg)
		Emitted	Lens			Min.	Max.	Min.	Typ.	
LEG14162/S1-PF	GaAsP/GaP	Orange	White Diffused	635	45	1.7	2.6	4.5	8	100
	GaP	Green		565	30	1.7	2.6	4.5	8	100

Note : 1.The forward voltage data did not including $\pm 0.1V$ testing tolerance.

2. The luminous intensity data did not including $\pm 15\%$ testing tolerance.

Typical Electro-Optical Characteristics Curve

E CHIP

Fig.1 Forward current vs. Forward Voltage

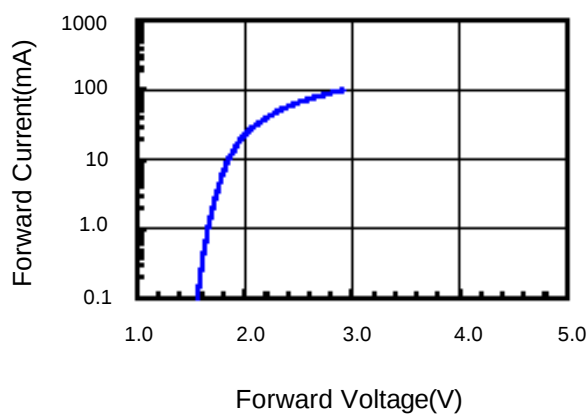


Fig.2 Relative Intensity vs. Forward Current

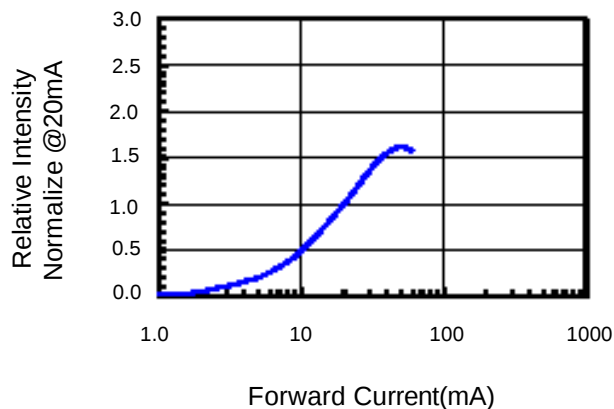


Fig.3 Forward Voltage vs. Temperature

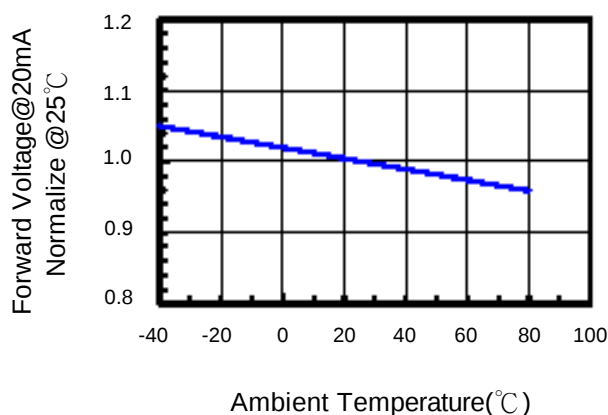


Fig.4 Relative Intensity vs. Temperature

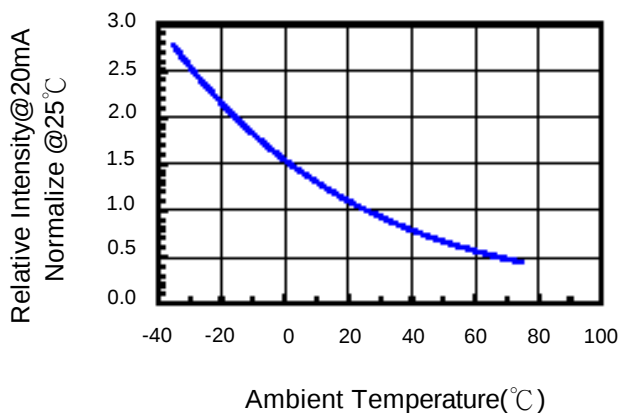
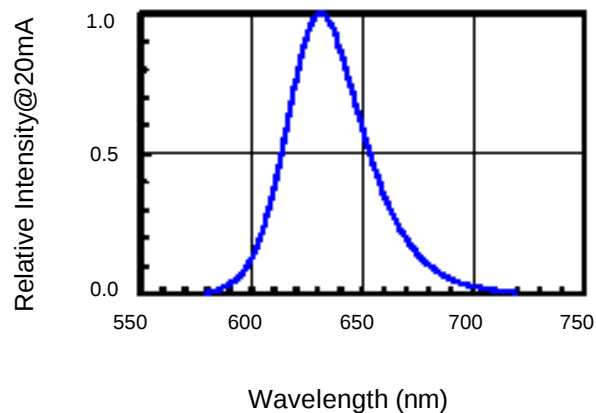


Fig.5 Relative Intensity vs. Wavelength





Typical Electro-Optical Characteristics Curve

G CHIP

Fig.1 Forward current vs. Forward Voltage

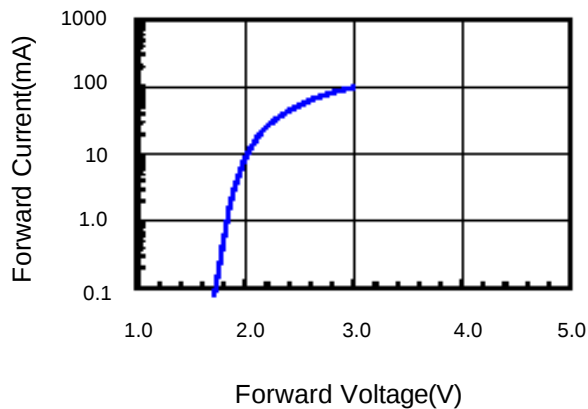


Fig.2 Relative Intensity vs. Forward Current

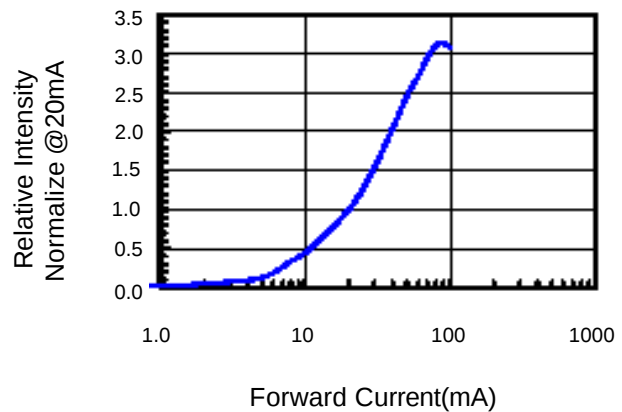


Fig.3 Forward Voltage vs. Temperature

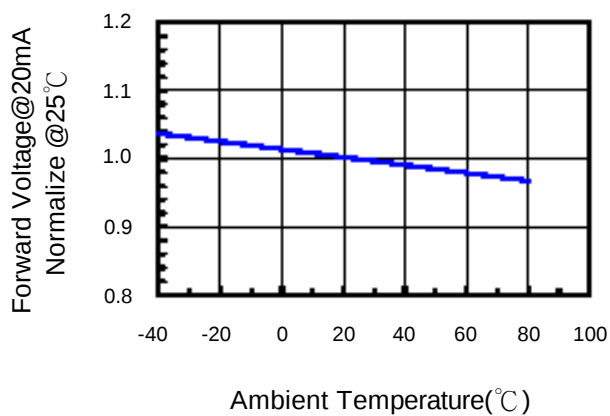


Fig.4 Relative Intensity vs. Temperature

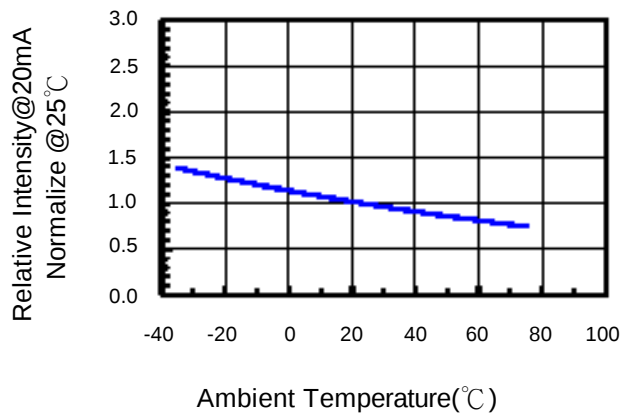
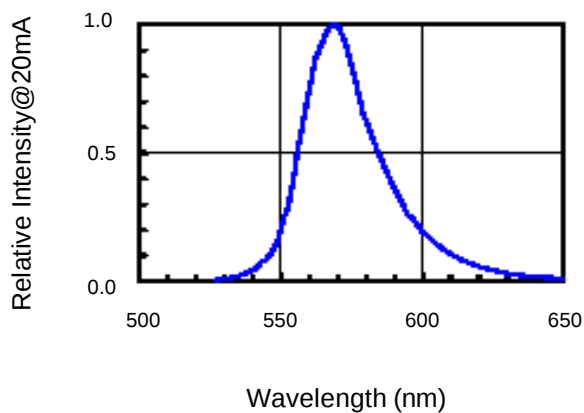


Fig.5 Relative Intensity vs. Wavelength



**Soldering Condition(Pb-Free)****1.Iron:**

Soldering Iron:30W Max

Temperature 350° C Max

Soldering Time:3 Seconds Max(One time only)

Distance:2mm Min(From solder joint to body)

2.Wave Soldering Profile

Dip Soldering

Preheat: 120° C Max

Preheat time: 60seconds Max

Ramp-up

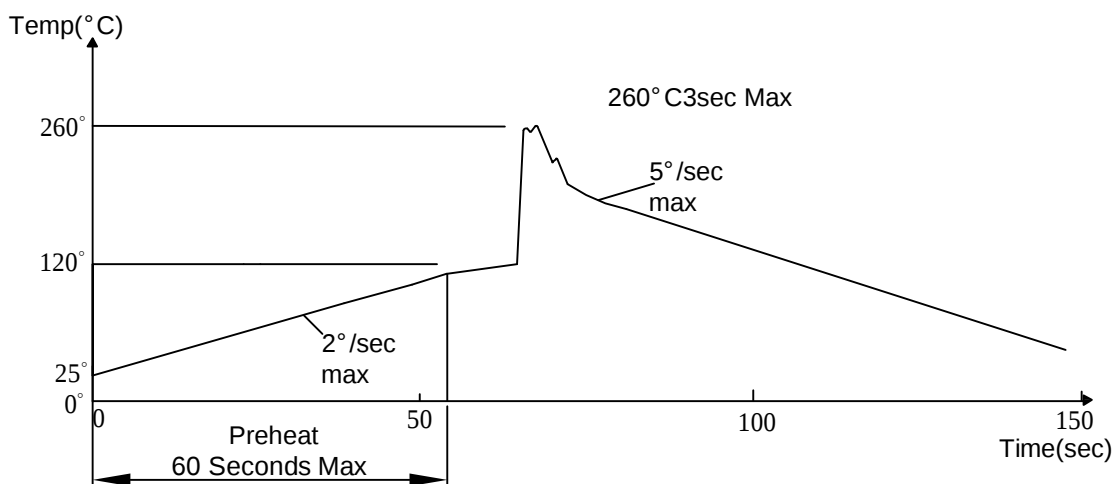
2° C/sec(max)

Ramp-Down:-5° C/sec(max)

Solder Bath:260° C Max

Dipping Time:3 seconds Max

Distance:2mm Min(From solder joint to body)



Note: 1.Wave solder should not be made more than one time.

2.You can just only select one of the soldering conditions as above.