

Light Emitting Diode(InGaAlP)

KLL-3ER

KLL-3ER is a high bright AlGaNp red LED, and has the optimized optical characteristics.

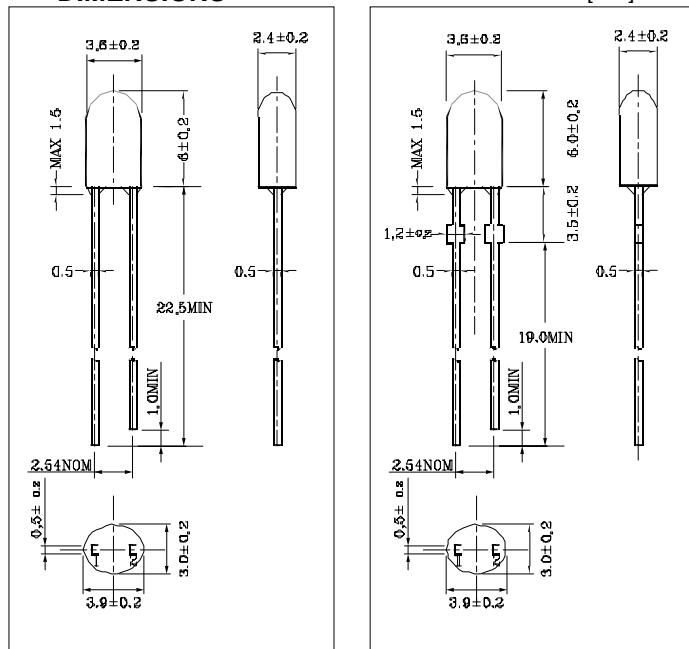
Features

- Transparent epoxy lens
- High Optical Output

Applications

- Display
- Indicator
- Signage

DIMENSIONS



Maximum Ratings

[Ta=25°C]

Parameter	Symbol	Ratings	Unit
Reverse voltage	V _R	5	V
Forward current	I _F	30	mA
Pulse forward current ^{*1}	I _{FP}	50	mA
Power dissipation	P _D	70	mW
Operating temperature	T _{opr.}	-30 ~ +85	°C
Storage temperature	T _{stg.}	-40 ~ +100	°C
Soldering Temperature ^{*2}	T _{sol.}	260	°C

*1. I_{FP} Measured under duty £ 1/10 @ 1KHz

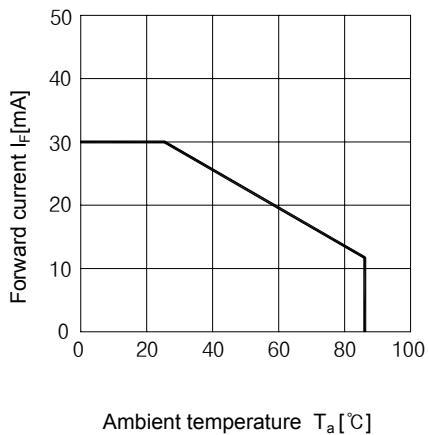
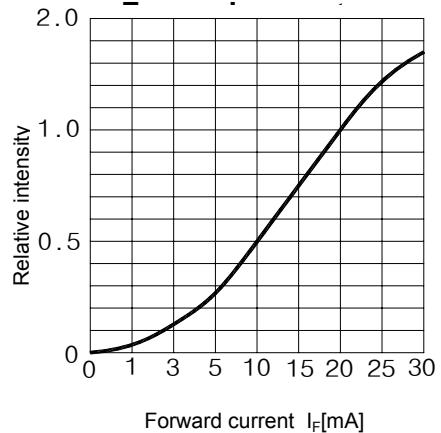
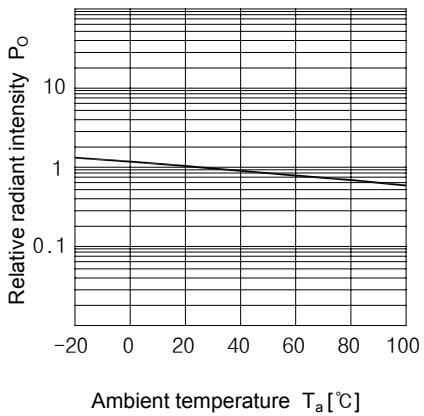
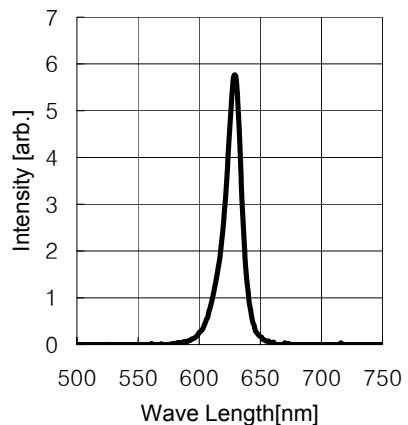
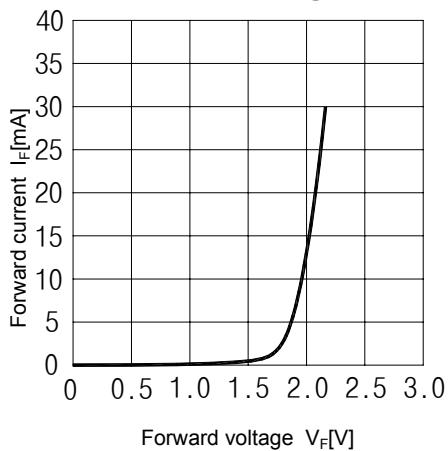
*2. Soldering time £ 5 Sec

Keep the distance more than 3mm from soldering foundation.

Electro-Optical Characteristics

[Ta=25°C]

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 20 mA	1.9	2.1	2.3	V
Reverse current	I _R	V _R = 5 V	-	-	10	uA
Luminous Intensity	I _V	I _F = 20 mA	390	550	-	mcd
Peak emission wavelength	λ _P	I _F = 20 mA	-	629	-	nm
Dominant Wave Length	λ _d	I _F = 20 mA	620	625	630	nm
Spectral half bandwidth	Δλ	I _F = 20 mA	-	25	-	nm
Half angle	2Δθ _{1/2}	I _F = 20 mA	-	110/50	-	deg.

KLL-3ER**Forward current vs.****Radiant Intensity vs.****Relative radiant intensity vs.
Ambient temperature****Relative intensity vs.
Wavelength****Forward current vs.
Forward voltage****Radiant Pattern**