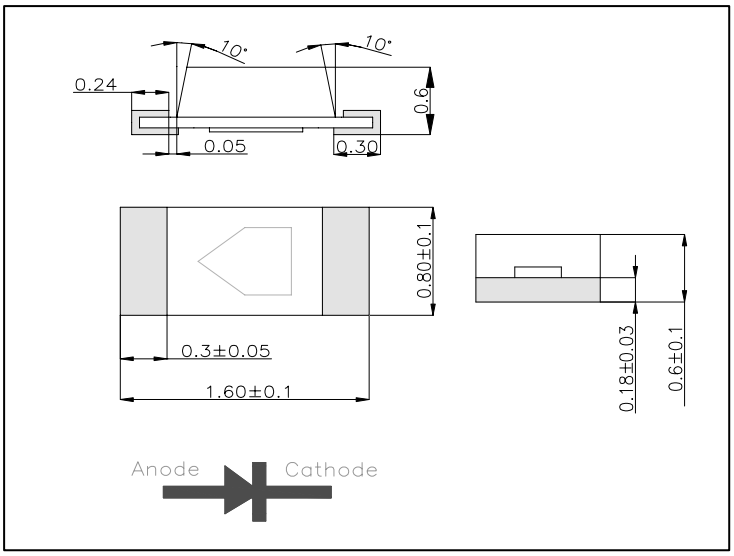
**Light Emitting Diode(InGaAlP)**

# KLB-16AR

KLB-16AR has a high bright InGaAlP Red LED and has the optimized optical characteristics.

**DIMENSIONS**




**Features**

- Ultra Wide Viewing Angle
- Very Thin Small SMD Package

**Applications**

- Display
- Indicator
- Key Pad Back Light

**Maximum Ratings** [ Ta=25°C ]

| Parameter | Symbol | Ratings | Unit |
|---|---|---|---|
| Reverse Voltage | $V_R$ | 5 | V |
| Forward current | $I_F$ | 25 | mA |
| Pulse forward current *1 | $I_{FP}$ | 60 | mA |
| Power dissipation | $P_D$ | 70 | mW |
| Operating temperature | $T_{opr.}$ | -30 ~ +85 | °C |
| Storage temperature | $T_{stg.}$ | -40 ~ +105 | °C |
| Soldering Temperature *2 | $T_{sol.}$ | 260 | °C |

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

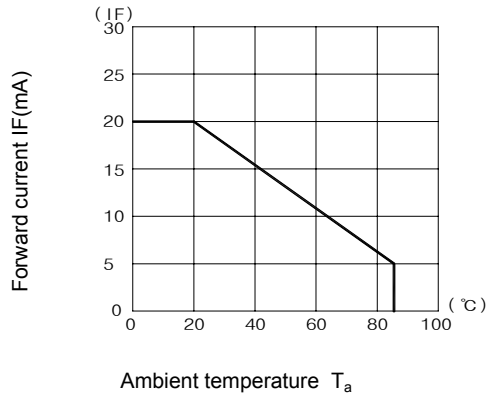
*2. Soldering time ≤ 5 Sec

**Electro-Optical Characteristics** [ Ta=25°C ]

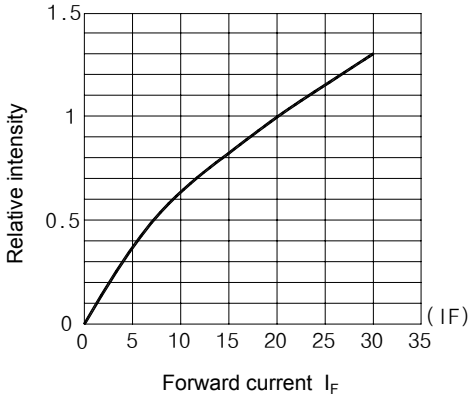
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Forward voltage | $V_F$ | $I_F$ = 10 mA | - | 2.0 | 2.2 | V |
| Luminous Intensity | Iv | $I_F$ = 10 mA | 15 | 25 | - | mcd |
| Doninant Wave Length | λd | $I_F$ = 10 mA | 620 | - | 630 | nm |
| Spectral half bandwidth | Δλ | $I_F$ = 10 mA | - | 20 | - | nm |
| Half angle | ΔΘ | $I_F$ = 10 mA | - | 160 | - | deg. |

# KLB-16AR

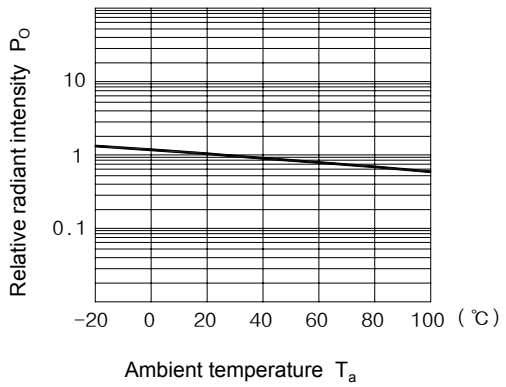
### Forward current vs. Ambient temperature



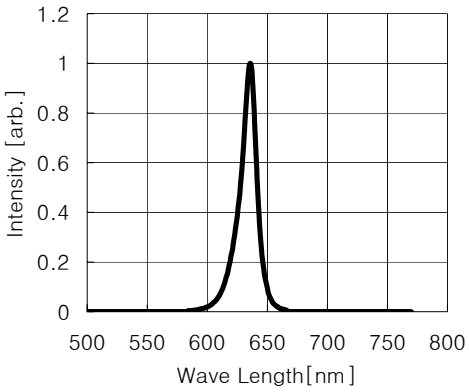

### Radiant Intensity vs. Forward current



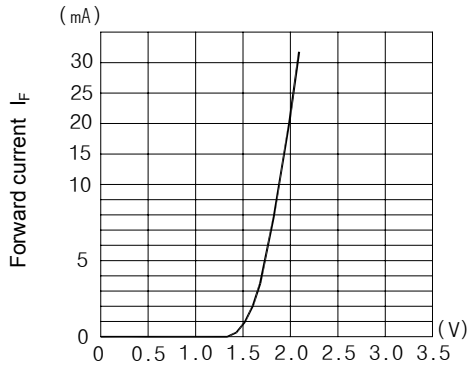

### Relative radiant intensity vs. Ambient temperature




### Relative intensity vs. Wavelength




### Forward current vs. Forward voltage




### Radiant Pattern

