

# KLB-16AR

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

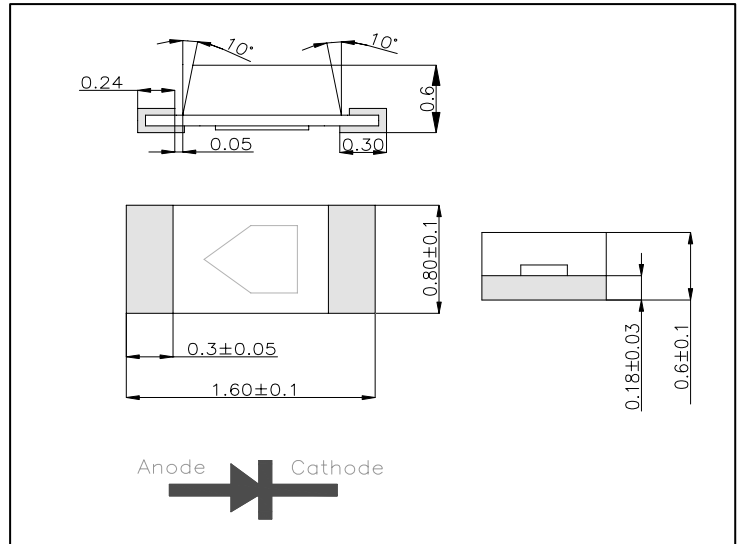
### Features

- Ultra Wide Viewing Angle
- Very Thin Small SMD Package

### Applications

- Display
- Indicator
- Key Pad Back Light

### DIMENSIONS



### 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  $\leq 1/10$  @ 1KHz

\*2. Soldering time  $\leq 5$  Sec

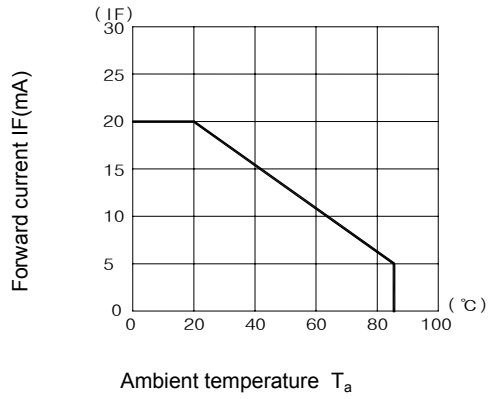
### Electro-Optical Characteristics

[ Ta=25°C ]

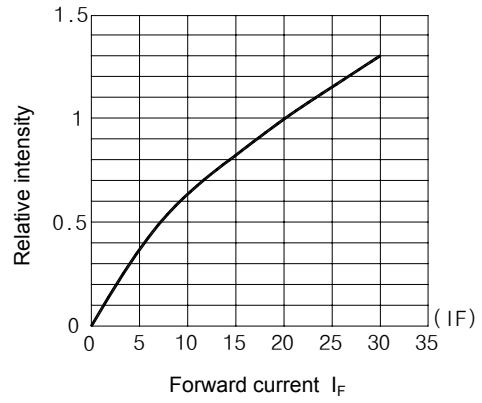
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 10$ mA	-	2.0	2.2	V
Luminous Intensity	$I_v$	$I_F = 10$ mA	15	25	-	mcd
Doninant Wave Length	$\lambda_d$	$I_F = 10$ mA	620	-	630	nm
Spectral half bandwidth	$\Delta\lambda$	$I_F = 10$ mA	-	20	-	nm
Half angle	$\Delta\theta$	$I_F = 10$ mA	-	160	-	deg.

**KLB-16AR**

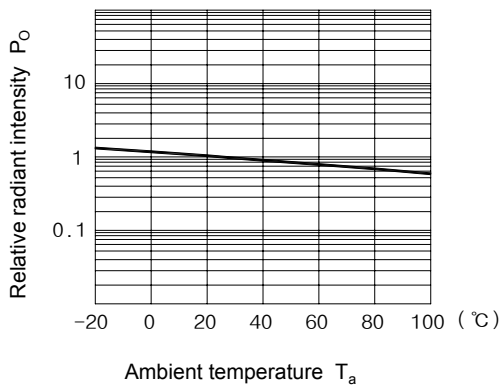
**Forward current vs. Ambient temperature**



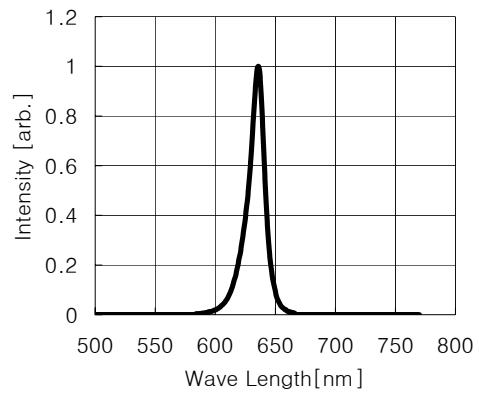
**Radiant Intensity vs. Forward current**



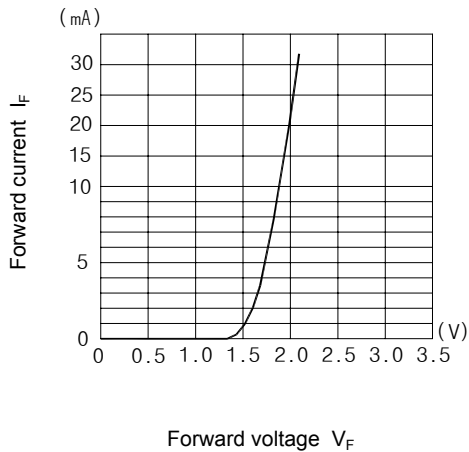
**Relative radiant intensity vs. Ambient temperature**



**Relative intensity vs. Wavelength**



**Forward current vs. Forward voltage**



**Radiant Pattern**

