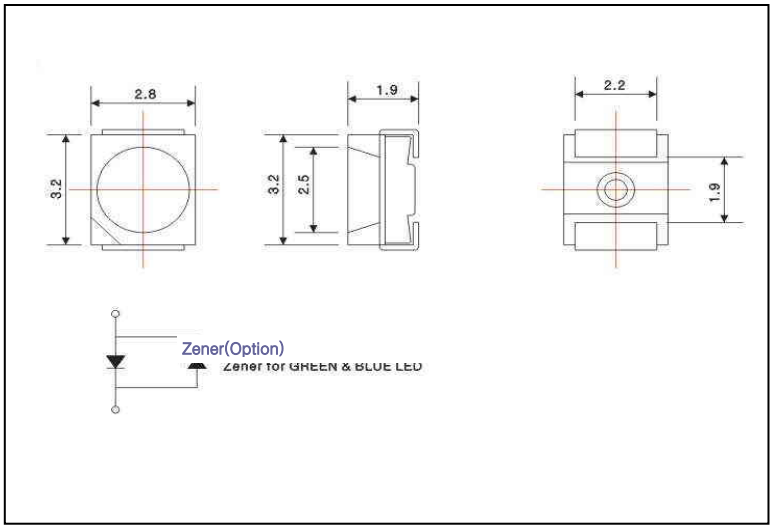
Light Emitting Diode(White Color)

KLP-32W-X-X

KLP-32W-x-x is a white color LED,
which has a blue LED chip and
is encapsulated by epoxy mixed with phosphor.

DIMENSIONS



Features

- Yellowish epoxy Encapsulent
- Color Temperature : 6,000 ~ 10,000K

Applications

- LCD Back Light
- Indicator
- Illumination

Maximum Ratings [Ta=25°C]

Parameter	Symbol	Ratings	Unit
Reverse Voltage (w/o Zener Option)	V_R	5	V
Reverse current (w Zener Option)	I_R	50	mA
Forward current	I_F	30	mA
Pulse forward current *1	I_{FP}	0.1	A
Power dissipation	P_D	90	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

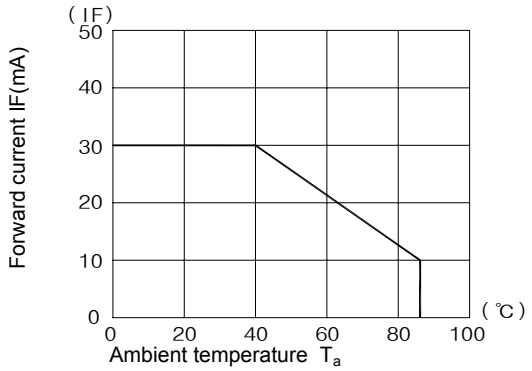
*2. Soldering time £ 5 Sec

Electro-Optical Characteristics [Ta=25°C]

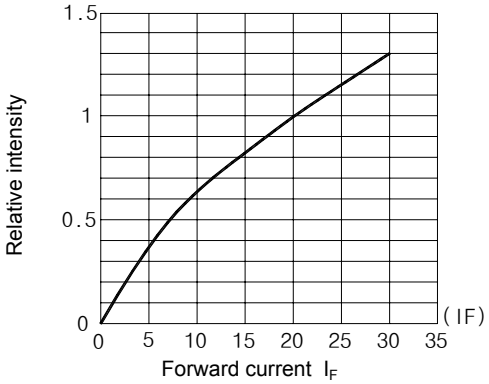
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F = 20 mA	-	3.5	-	V
Luminous Intensity	Iv	I_F = 20 mA	850	1000	-	mcd
Color Coordinate	x	I_F = 20 mA	0.264	-	0.356	-
	y		0.248	-	0.385	
Half angle	$2\Delta\theta_{1/2}$	I_F = 20 mA	-	110	-	deg.

KLP-32W-X-X

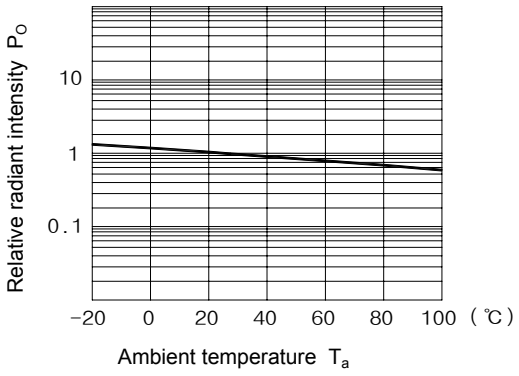
Forward current vs. Ambient temperature



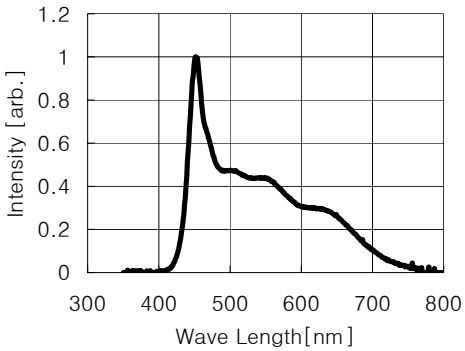
Radiant Intensity vs. Forward current



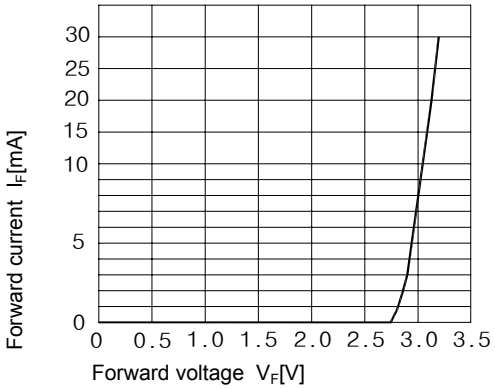
Relative radiant intensity vs. Ambient temperature



Relative intensity vs. Wavelength



Forward current vs. Forward voltage



Radiant Pattern