

# KLB-16WC

KLB-16W is a high bright InGaN white LED whitout using phorsphor.

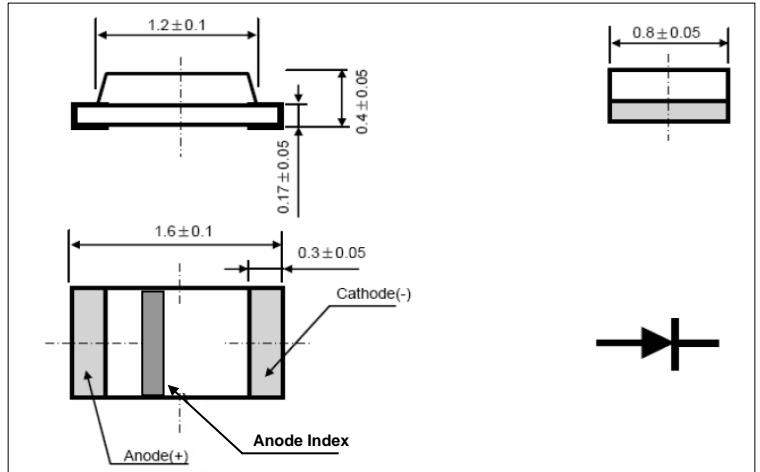
**Features**

- Ultra Wide Viewing Angle
- Very Thin Small SMD Package
- Single Chip White LED without Phospor

**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	$P_D$	65	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

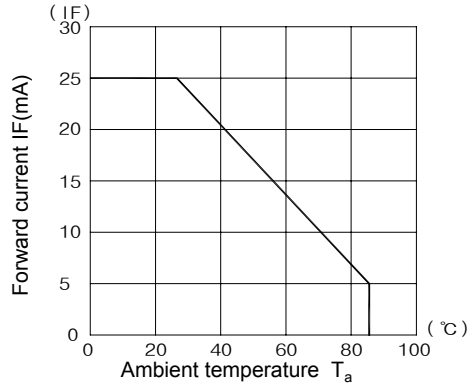
**Electro-Optical Characteristics**

[ Ta=25°C ]

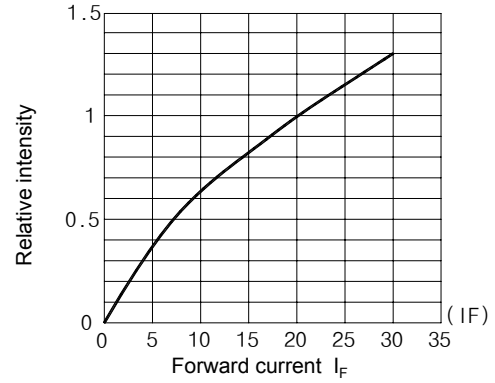
Parameter	Symbol	Conditions	Typical Values					Unit
			KLB-16W	KLB-16W	KLB-16W	KLB-16W	KLB-16W	
Forward voltage	$V_F$	$I_F = 5$ mA	2.9	2.9	2.9	2.9	2.9	V
		$I_F = 20$ mA	3.3	3.3	3.3	3.3	3.3	V
Luminous Intensity	lv	$I_F = 5$ mA	70	75	70	70	90	mcd
		$I_F = 20$ mA	230	240	230	230	280	
Color Coordinate	x	$I_F = 5$ mA	0.33	0.35	0.36	0.41	0.42	-
	y		0.35	0.38	0.36	0.39	0.42	
	x	$I_F = 20$ mA	0.28	0.29	0.29	0.31	0.32	
	y		0.33	0.34	0.32	0.35	0.37	
Half angle	$\Delta\theta$	$I_F = 20$ mA	160	160	160	160	160	deg.

**KLB-16WC**

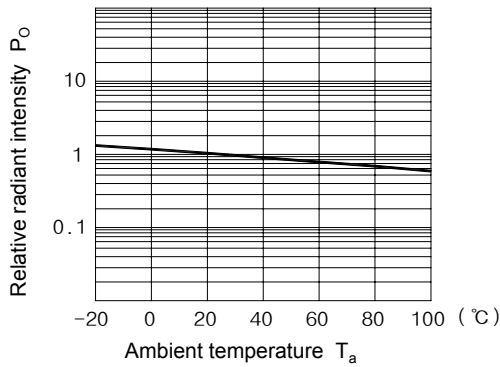
**Forward current vs. Ambient temperature**



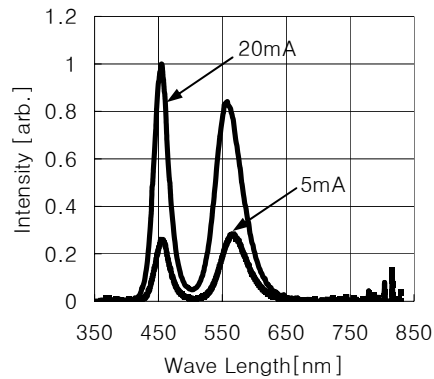
**Radiant Intensity vs. Forward current**



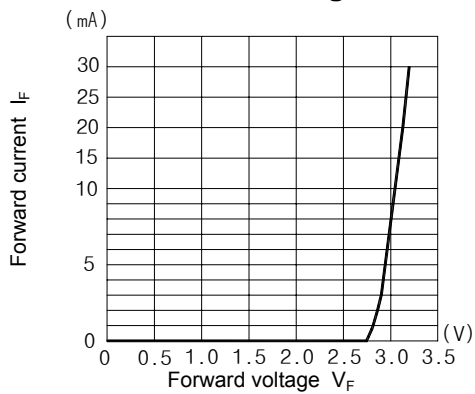
**Relative radiant intensity vs. Ambient temperature**



**Relative intensity vs. Wavelength**



**Forward current vs. Forward voltage**



**Radiant Pattern**

