

# KLP-56M

KLP-56M is a 3 in 1 full colour LED.

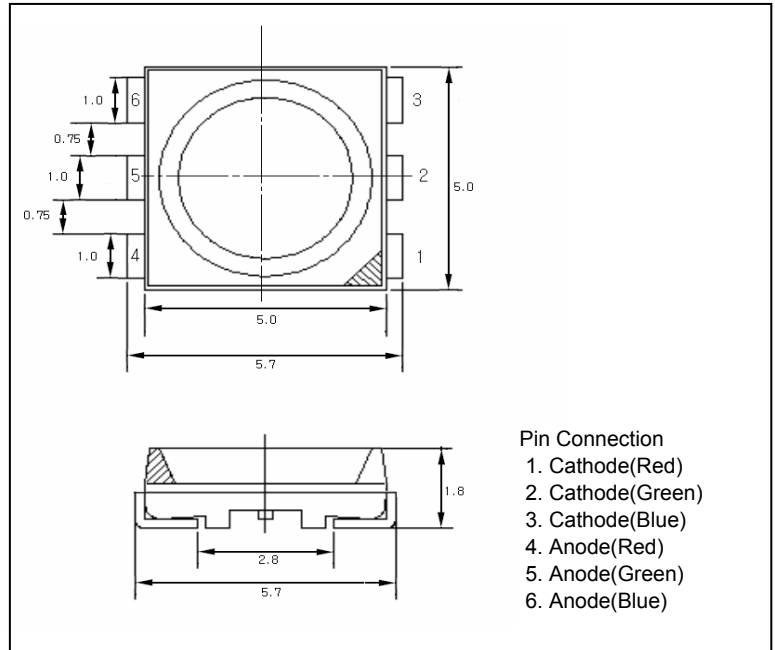
### Features

- Transparent epoxy Encapsulent
- 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 <sup>*1</sup>	$I_{FP}$	0.1	A
Power dissipation	$P_D$	90	mW
Operating temperature	$T_{opr.}$	-30 ~ +85	°C
Storage temperature	$T_{stg.}$	-40 ~ +105	°C
Soldering Temperature <sup>*2</sup>	$T_{sol.}$	260	°C

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

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

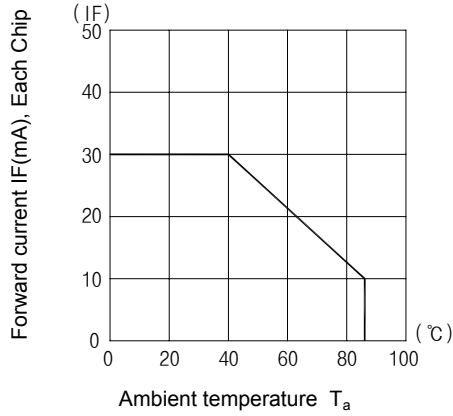
### Electro-Optical Characteristics

[ Ta=25°C ]

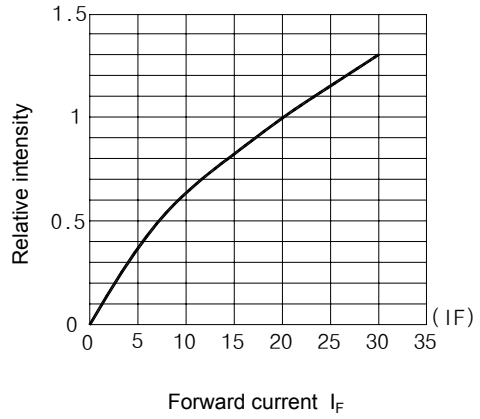
Parameter	Symbol	Conditions	Typical Value			Unit
			RED	GREEN	BLUE	
Forward voltage	$V_F$	$I_F = 20$ mA/Die	2	3.3	3.2	V
Optical Output Power	$I_v$	$I_F = 20$ mA/Die	300	750	200	mW
Doninant Wave Length	$\lambda_d$	$I_F = 20$ mA/Die	630	525	470	nm
Spectral half bandwidth	$\Delta\lambda$	$I_F = 20$ mA/Die	20	30	25	nm
Half angle	$\Delta\theta$	$I_F = 20$ mA/Die	-	120	-	deg.

**KLP-56M**

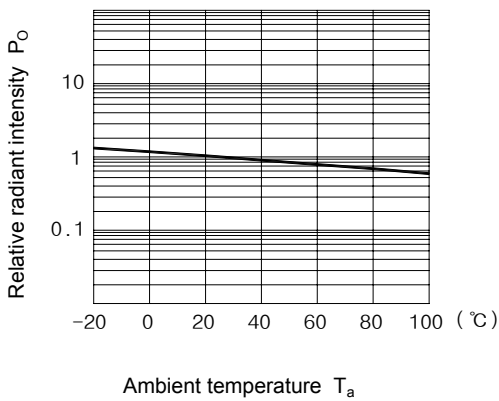
**Forward current vs. Ambient temperature**



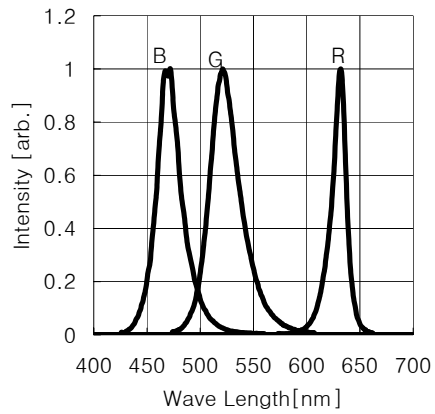
**Radiant Intensity vs. Forward current**



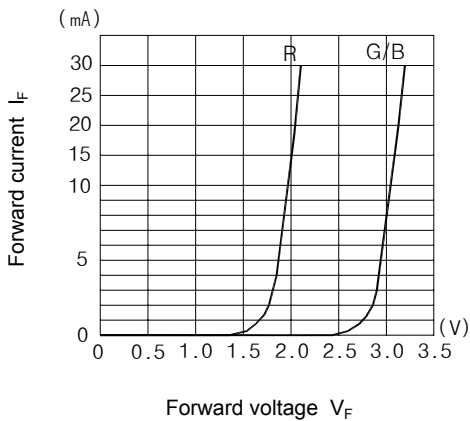
**Relative radiant intensity vs. Ambient temperature**



**Relative intensity vs. Wavelength**



**Forward current vs. Forward voltage**



**Radiant Pattern**

