

## 1W High Power LED

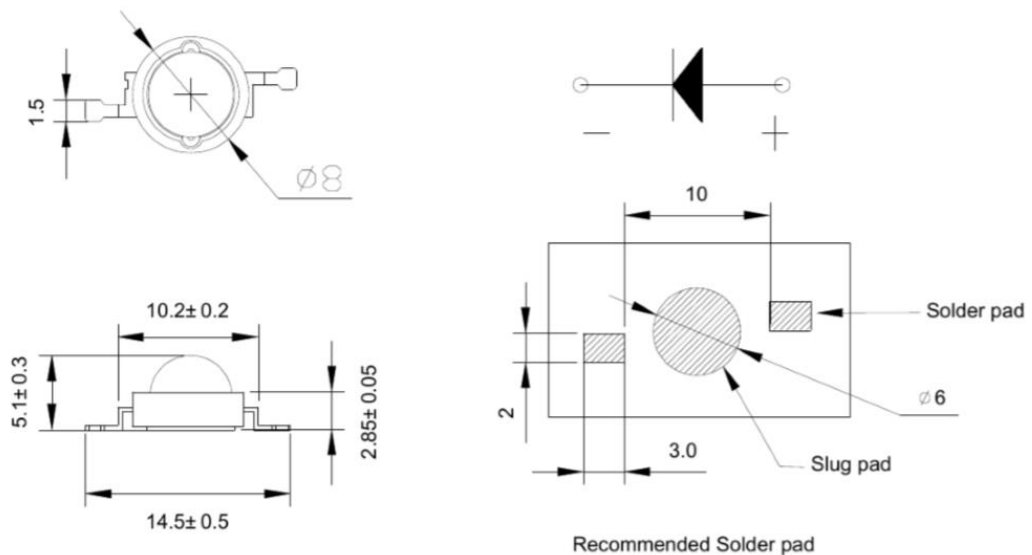
### ■ Application

Reading lights  
 Portable flashlight  
 Contour lights  
 Road lights  
 Garden lighting

Notes :

1. It is strongly recommended that the temperature of lead be not hegter than 55°C
2. Don' t press the surface of silica gel

### ■ Package dimensions



Notes: All dimensions in mm tolerance is  $\pm 0,1$ mm unless otherwise noted.

### ■ Absolute Maximum Ratings (Ta=25°C)

Items	Symbol	Absolute maximum Rating		Unit
		W		
Power Dissipation	$P_D$	1100		mW
Forward Current (DC)	$I_F$	350		mA
Peak Forward Current*	$I_{FP}$	500		mA
LED Junction Temperature	$T_j$	125		°C
Operation Temperature	$T_{opr}$	-30~+110	-30~+110	°C
Storage Temperature	$T_{stg}$	-40~+120	-40~+120	°C

\*Pulse width  $\leq 0.1$ msec duty  $\leq 1/10$

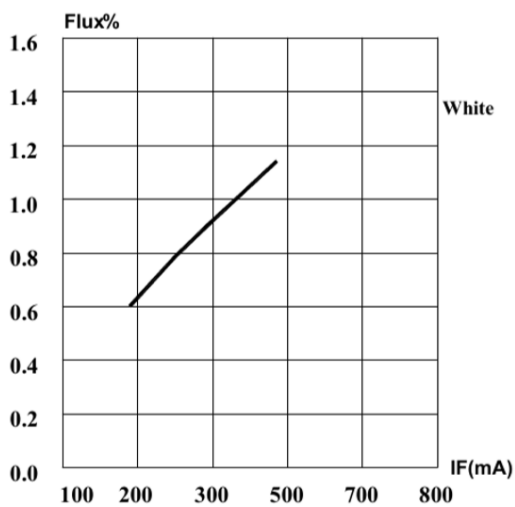
■ Typical Electrical & Optical Characteristics ( $I_f=350\text{mA}$  and  $T_a=25^\circ\text{C}$ )

Part N	Dominant Wavelength (nm) or CCT (K)		Forward voltage (v)		Luminous Flux (lm)		Reverse Current ( $\mu\text{A}$ ) 5V	50% Power Angle
	Min.	Typ.	Min.	Max.	Min.	Typ.		
1w 70-80	2700	7000	3.2	3.6	70	80	10	140
1w 80-90					80	90		
1w 90-100					90	100		
1w 100-110					100	110		
1w 110-120					110	120		

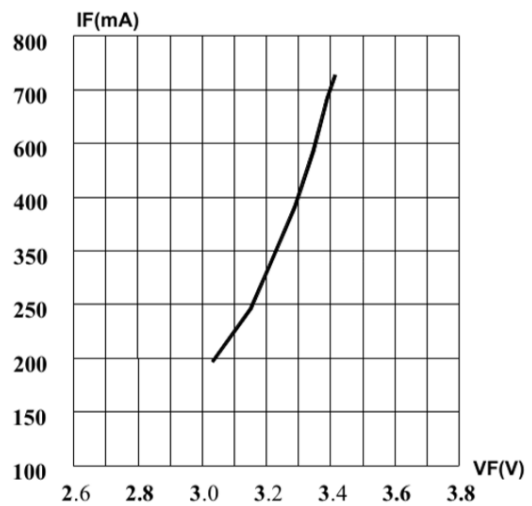
Notes:

1. Tolerance of measurement of luminous flux :  $\pm 15\%$
2. Tolerance of measurement of CCT (Correlated color temperature) :  $\pm 200\text{k}$
3. Tolerance of measurement of forward voltage :  $\pm 0.1\text{v}$

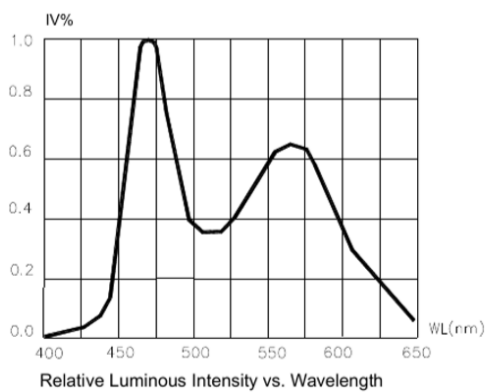
■ Typical Electrical/ Optical Characteristics Curves ( $T_a=25^\circ\text{C}$  Unless Otherwise Noted)



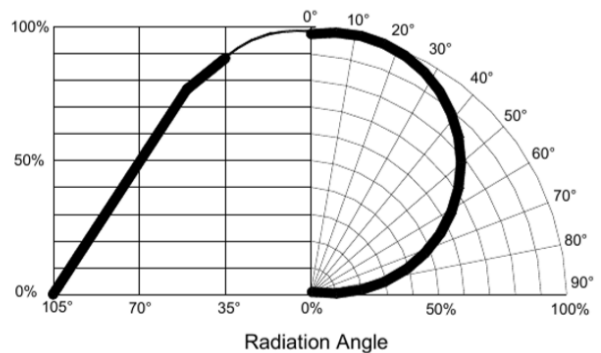
Relative Luminous Flux vs. Forward Current



Forward Current vs. Forward Voltage



Relative Luminous Intensity vs. Wavelength



Radiation Angle

Packing Specifications

