

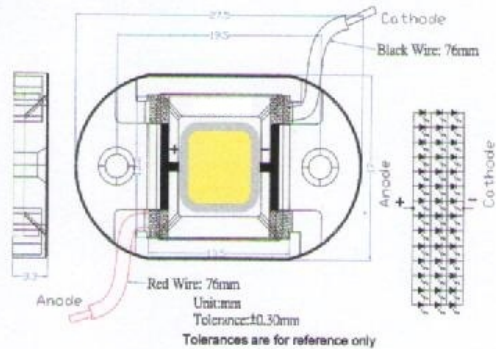
■ **Features**

- High-power LED
- Long lifetime operation
- Based on ceramic substrate to achieve long operating life
- Typical luminous flux performance 420lm@600mA
- Possible to attach to heat sink directly without using print circuit board.

■ **Applications**

- Indoor & outdoor lighting
- Stage lighting
- Reading lamps
- Display cases, furniture illumination, marker
- Architectural illumination
- Spotlights

■ **Outline Dimension**



■ **Absolute Maximum Rating**

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current *1	I_F	700	mA
Pulse Forward Current*2	I_{FP}	1400	mA
Reverse Voltage	V_R	15	V
Power Dissipation*1	P_D	6,840	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C /5sec	**

*1, Power dissipation and forward current are the value when the module temperature is set lower than the rating by using an adequate heat sink.

*2, Pulse width Max.10ms Duty ratio max 1/10

• **Electrical -Optical Characteristics**

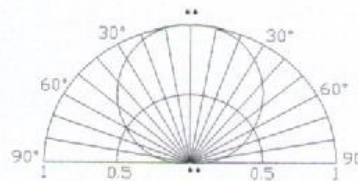
(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	*****
DC Forward Voltage	V_F	$I_F=600mA$	9.0	10.2	11.4	V
DC Reverse Current	I_R	$V_R=15V$	-	-	100	μA
Luminous Flux	Φ_v	$I_F=600mA$	360	420	-	lm
Color Temperature	CCT	$I_F=600mA$	-	6500	-	K
Chromaticity Coordinates*	x	$I_F=600mA$	-	0.31	-	
	y	$I_F=600mA$	-	0.33	-	
50% Power Angle	$2\theta_{1/2}$	$I_F=600mA$	-	120	-	deg

Note: Don't drive at rated current more than 5s without heat sink for High Power series.

* Tolerance of chromaticity coordinates is ±10%, * Tolerance of Luminous Flux is ±20%.

■ **Directivity**



<Fig.a> Forward Current Derating Curve

