

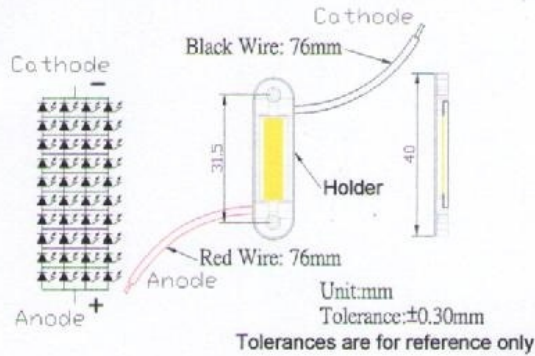
■ Features

- High-power LED
- Long lifetime operation
- Based on ceramic substrate to achieve long operating life
- Typical luminous flux performance 450lm@180mA
- 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	200	mA
Pulse Forward Current*2	I _{FP}	400	mA
Reverse Voltage	V _R	50	V
Power Dissipation*1	P _D	7,200	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

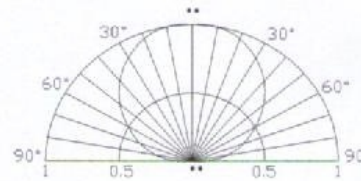
(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	*****
DC Forward Voltage	V _F	I _F =180mA	31	33	36	V
DC Reverse Current	I _R	V _R =50V	-	-	40	μA
Power Dissipation	P _D	I _F =180mA	5,580	5,940	-	mW
Luminous Flux	Φ _v	I _F =180mA	400	450	-	lm
Color Temperature	CCT	I _F =180mA	-	6500	-	K
Chromaticity Coordinates*	x	I _F =180mA	-	0.31	-	
	y	I _F =180mA	-	0.33	-	
50% Power Angle	2θ _{1/2}	I _F =180mA	-	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

