

### ■Features

- Highest luminous flux
- Super energy efficiency
- Very long operating life (up to 100K hours)
- Superior ESD protection
- No UV

### ■Applications

- Read lights (car, bus, aircraft)
- Portable (flashlight, bicycle)
- Bollards / Security / Garden
- Traffic signaling / Beacons
- In door / Out door Commercial lights
- Automotive Ext

### ■Absolute Maximum Rating

(Ta=25 °C)

Item	Symbol	Value	Unit
DC Forward Current	$I_F$	400	mA
Pulse Forward Current*	$I_{FP}$	500	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	1200	mW
Operating Temperature	$T_{opr}$	-30 ~ +85	
Storage Temperature	$T_{stg}$	-40~ +100	
Lead Soldering Temperature	$T_{sol}$	260 /5sec	-

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

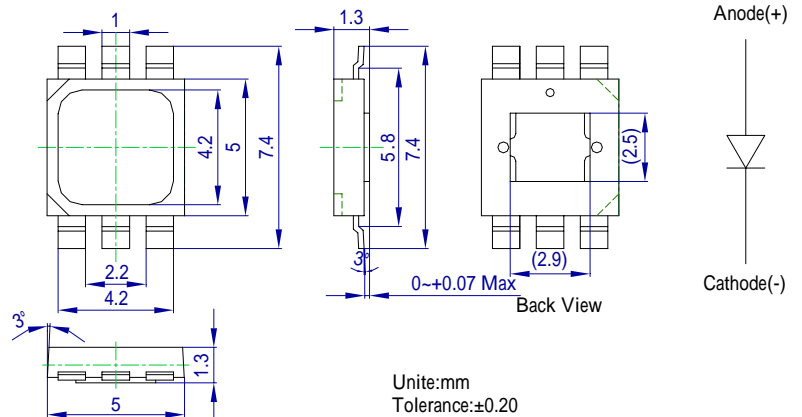
### ■Electrical -Optical Characteristics

(Ta=25 °C)

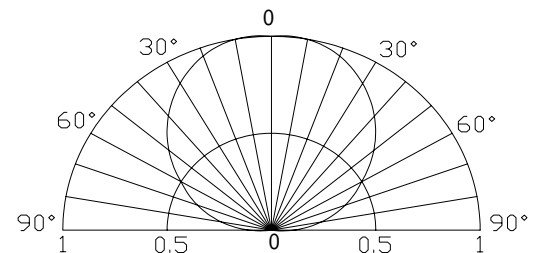
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	$V_F$	$I_F=350mA$	2.0	2.5	3.0	V
DC Reverse Current	$I_R$	$V_R=5V$	-	-	10	$\mu A$
Domi. Wavelength	$\lambda_D$	$I_F=350mA$	619	624	629	nm
Luminous Flux	$\nu$	$I_F=350mA$	-	50	70	lm
50% Power Angle	$2\theta_{1/2}$	$I_F=350mA$	-	120	-	deg

Note: Don't drive at rated current more than 5s without heat sink for Tops 1 emitter series.

### ■Outline Dimension



### ■Directivity



### Forward Operating Current (DC)

