OptoSupply
Light It Up

Tops H Power Warm White LED

OSM5XATHC1E

VER C.1

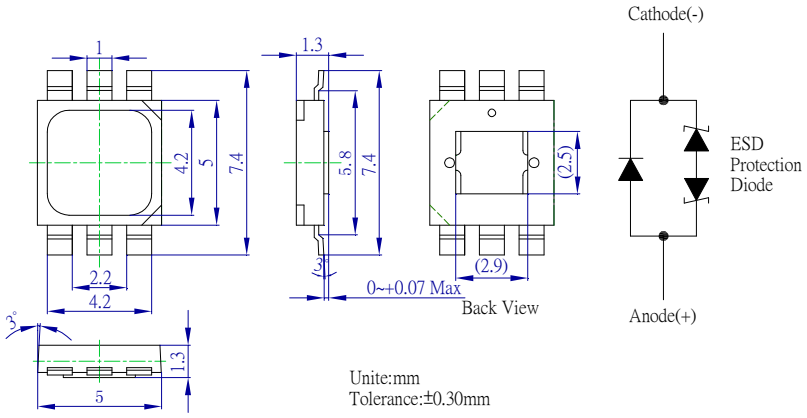
■Features

- Highest Luminous Flux
- Super Energy Efficiency
- Long Lifetime Operation
- Superior ESD protection
- Superior UV Resistance

■Applications

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

■Outline Dimension

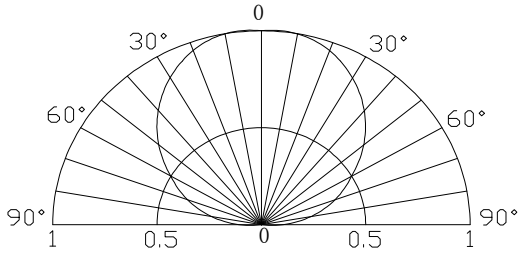


■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	200	mA
Pulse Forward Current*	I_{FP}	250	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	800	mW
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

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

■Directivity



■Electrical -Optical Characteristics (Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	I_F=150mA	3.0	3.3	4.0	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Luminous Flux	Φv	I_F=150mA	15	20	-	lm
Color Temperature	CCT	I_F=150mA	-	3000	-	K
Chromaticity Coordinates*	x	I_F=150mA	-	0.45	-	-
	y	I_F=150mA	-	0.41	-	-
50% Power Angle	$2\theta_{1/2}$	I_F=150mA	-	120	-	deg

*1 Tolerance of measurements of chromaticity coordinate is ±10%
*2 Tolerance of measurements of luminous flux is ±15%
*3 Tolerance of measurements of forward voltage is±0.1V

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

■Forward Operating Current (DC)