OptoSupply
Light It Up

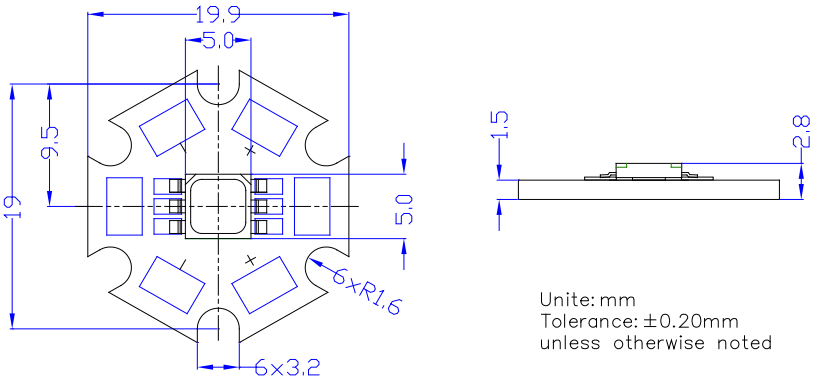
Tops 3 Power UV Star MCPCB LED

OSV1XCT3C1S

■Features

- Highest Radiant Power
- Super Energy Efficiency
- Superior ESD protection
- Superior UV Resistance

■Outline Dimension



■Applications

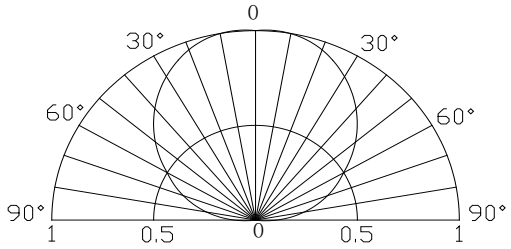
- Money Detector
- UV-Curing
- Sensor Light
- Photo-catalyst
- Other Lighting

■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	700	mA
Pulse Forward Current#	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	3150	mW
Junction Temperature	Tj	120	℃
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40~ +100	℃
Lead Soldering Temperature	Tsol	260℃/10sec	-

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

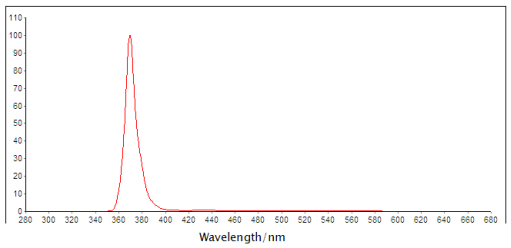
■Directivity



■Electrical -Optical Characteristics (Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V_F	I_F=700mA	3.5	4.0	4.5	V
DC Reverse Current	I_R	V_R=5V	-	-	100	μA
Peak Wavelength*2	λ_P	I_F=700mA	360	365	370	nm
Radiant Power*3	Po	I_F=700mA	600	700	-	mW
Luminous Intensity*4	Iv	I_F=700mA	-	1120	-	mcd
50% Power Angle	$2\theta_{1/2}$	I_F=700mA	-	120	-	deg

■Spectral Curve



*1 Tolerance of measurements of forward voltage is ±0.1V

*2 Tolerance of measurements of Peak Wavelength is ±1nm

*3 Tolerance of measurements of Radiant Power is ±15%

*4 Tolerance of measurements of luminous intensity is ±15%

Note: Don't drive at rated current more than 5s without heat sink for Tops 3 emitter series.

InGaN LED

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

