OptoSupply

Xeon 1 Power Warm White LED

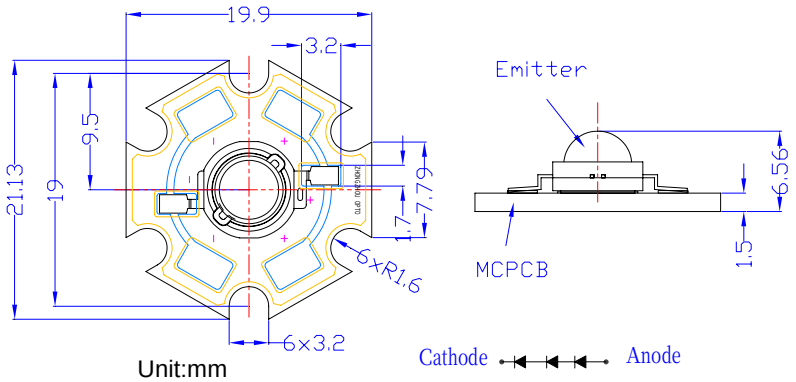
OSM5Z3E1E1S

VER C.0

■Features

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

■Outline Dimension



Unit:mm
Tolerance:±0.30mm
Tolerances are for reference only

■Applications

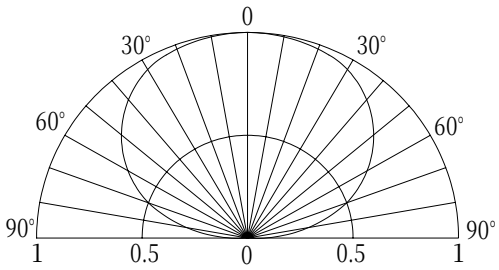
- Electronic Signs And Signals
- Small Area Illuminations
- Back Lighting
- Other Lighting
- In door / Out door Commercial lights

■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	150	mA
Pulse Forward Current*	I_{FP}	300	mA
Reverse Voltage	V_R	15	V
Power Dissipation	P_D	1710	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=120mA	9.0	9.6	11.4	V
DC Reverse Current	I_R	V_R=15V	-	-	10	μA
Luminous Flux	Φv	I_F=120mA	75	85	95	lm
Color Temperature	CCT	I_F=120mA	-	3000	-	K
Chromaticity Coordinates*	x	I_F=120mA	-	0.45	-	-
	y	I_F=120mA	-	0.41	-	-
50% Power Angle	$2\theta_{1/2}$	I_F=120mA	-	140	-	deg

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