

Xeon 3 Power Candle Warm White LED

OSM2XNE3E1E

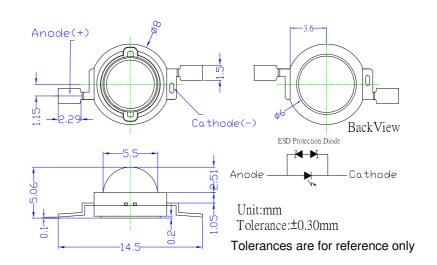
■Features

- 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

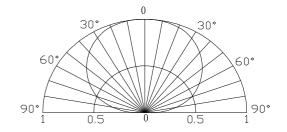
■Outline Dimension



■Absolute Maximum Rating

Item	Symbol	Value	Unit
DC Forward Current	I_{F}	800	mA
Pulse Forward Current#	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_{D}	3200	mW
Operating Temperature	Topr	-30 ~ +85	$^{\circ}\!\mathbb{C}$
Storage Temperature	Tstg	-40~ +100	$^{\circ}\mathbb{C}$
Lead Soldering Temperature	Tsol	260°C/5sec	-

Directivity

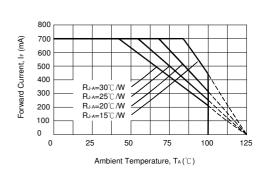


#Pulse width Max.10ms Duty ratio max 1/10

■Electrical -Optical Characteristics

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Item	Symbol	Condition	Min.	Тур.	Max.	Unit
DC Forward Voltage*1	V_{F}	I _F =350mA	3.0	3.3	4.0	V
		I _F =700mA	3.5	3.8	4.5	V
DC Reverse Current	I_R	V _R =5V	-	-	10	μA
Luminous Flux*2	Φν	I _F =700mA	190	210	-	lm
Color Temperature*3	CCT	I _F =700mA	2000	2200	2400	K
Chromaticity	X	I _F =700mA	-	0.51	-	-
Coordinates*4	у	I _F =700mA	-	0.41	-	-
50% Power Angle	201/2	I _F =700mA	-	140	-	deg

■Forward Operating Current (DC)



(Ta=25°C)

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

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^{*1} Tolerance of measurements of forward voltage is±0.1V

^{*2} Tolerance of measurements of luminous flux is +15%

^{*4} Tolerance of measurements of chromaticity coordinates is $\pm 10\%$ *3 Tolerance of measurements of Color Temperature is ±10%



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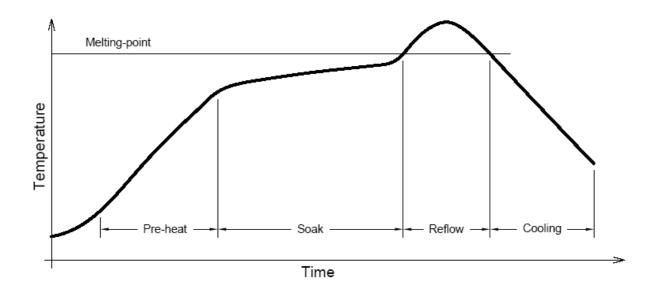
■ Soldering Heat Reliability:

Reflow soldering Profile

- · Reflow soldering should not be done more than two times.
- · When soldering, do not put stress on the LEDs during heating.
- · After soldering, do not warp the circuit board.
- · Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable,

characteristics of the LEDs will or will not be damaged by repairing.

Solder			
Average ramp-up rate = 3°C/sec. max.			
Preheat temperature: 150°~180°C			
Preheat time = 120 sec. max.			
Ramp-down rate = 6° C/sec. max.			
Peak temperature = 220°C max.			
Time within 3°C of actual			
peak temperature = 25 sec. max.			
Duration above 200°C is 40 sec. max.			



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