

Xeon 1 Power Candle Warm White LED

OSM2XNE1E1E

■Features

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

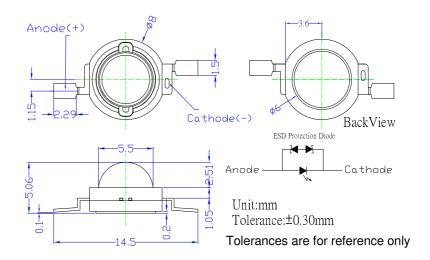
■Applications

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

Outline Dimension

(Ta=25°C)

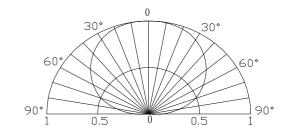
(Ta=25°C)



■Absolute Maximum Rating

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}	1600	mW
Operating Temperature	Topr	-30 ~ +85	$^{\circ}$
Storage Temperature	Tstg	-40~ +100	$^{\circ}\!\mathbb{C}$
Lead Soldering Temperature	Tsol	260°C/5sec	-

Directivity

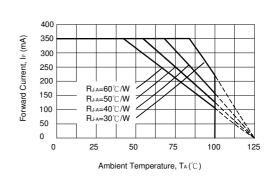


#Pulse width Max.10ms Duty ratio max 1/10

■Electrical -Optical Characteristics

					•	
Item	Symbol	Condition	Min.	Тур.	Max.	Unit
DC Forward	V_{F}	I _F =350mA	3.0	3.3	4.0	V
Voltage*1	VF					
DC Reverse Current	I_R	$V_R=5V$	1	-	10	μΑ
Luminous Flux*2	Φν	I _F =350mA	100	110	-	lm
Color Temperature*3	CCT	I _F =350mA	2000	2200	2400	K
Chromaticity	X	I _F =350mA	-	0.51	-	-
Coordinates*4	у	I _F =350mA	1	0.41	-	1
50% Power Angle	201/2	I _F =350mA	-	140	-	deg

■Forward Operating Current (DC)



*2 Tolerance of measurements of luminous flux is ±15%

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

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

nate is $\pm 10\%$ *4 Tolerance of measurements of chromaticity coordinates is $\pm 10\%$



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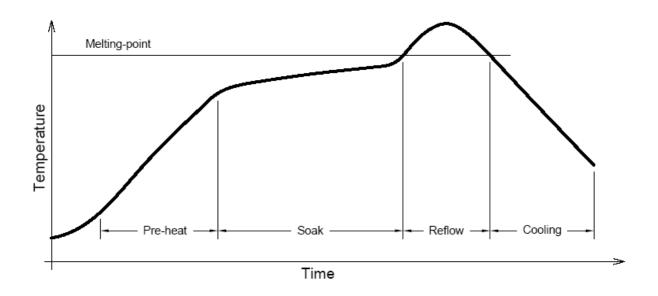
■ Soldering Heat Reliability:

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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