

Xeon 0.5 Power Fluorescent Green LED

OSG7XNEHC1E VER.C.1

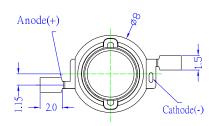
■Features

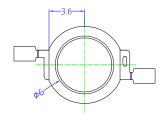
- · Highest Luminous Flux
- Super Energy Efficiency
- · Long Lifetime Operation
- Superior ESD protection

■Applications

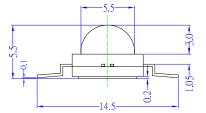
- Read lights (car, bus, aircraft)
- Portable (flashlight, bicycle)
- Bollards / Security / Garden
- Traffic signaling / Beacons
- In door / Out door Commercial lights
- Automotive Ext

■Outline Dimension



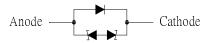


BackView



(Ta=25°C)

(Ta=25°C)

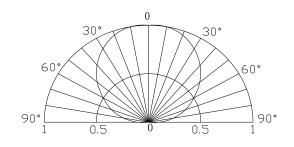


ESD Protection Diode Unit:mm Tolerance:±0.30mm

■Absolute Maximum Rating

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

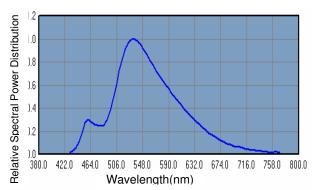
Directivity



■Electrical -Optical Characteristics

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Item	Symbol	Condition	Min.	Тур.	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	μΑ
Luminous Flux	Φν	I _F =150mA	30	35	-	lm
Chromaticity Coordinates*	х	I _F =150mA	-	0.35	-	-
	у	I _F =150mA	-	0.50	-	-
50% Power Angle	2θ1/2	I _F =150mA	-	120	-	deg

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











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



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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.		

