

3mm Dome Power LED

Features

- High flux output
- Low profile
- Low thermal resistance
- Design for high current operation
- Packaged in Tubes for use with automatic insertion equipment



Piranha

Descriptions

- This white LED which was fabricated using a blue LED and a phosphor, and the phosphor is excited by blue light and emits yellow fluorescence. The mixture of blue light and yellow light results in a white emission.

Applications

- Automotive equipment
- OA equipment
- Backlighting of LCD
- Replacement of conventional light bulbs and fluorescent lamps

Device Selection Guide

Part No.	Chip		Lens Color
	Material	Emitted Color	
TLH-W1W3-30011B	InGaN	White	Water Clear

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Value	Unit
Reverse Voltage	VR	5	V
Continuous Forward Current	IF	30	mA
Pulse Forward Current (Note.1)	IFP	100	mA
Power Dissipation	Pd	120	mW
Soldering Temperature (Note.2)	Tsol	260 ± 5	°C
Operating Temperature	Topr	-30 ~ +80	°C
Storage Temperature	Tstg	-40 ~ +100	°C

- Note:** 1. Pulse Width ≤ 10m seconds and duty ≤ 1/10
2. Soldering time ≤ 5 seconds

Electro-Optical Characteristics (Ta=25°C)

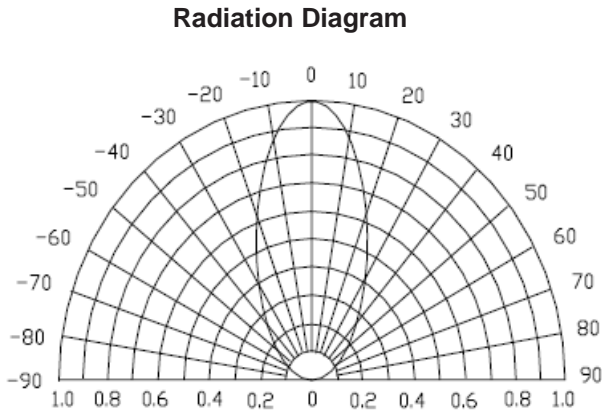
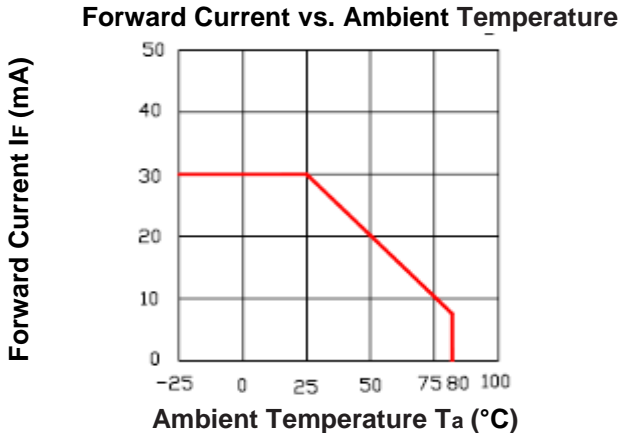
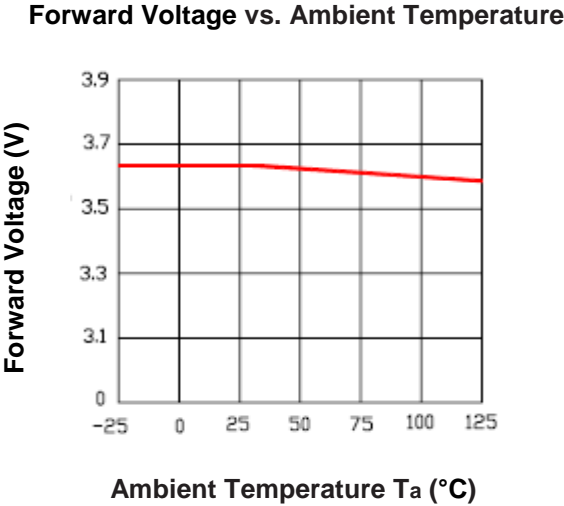
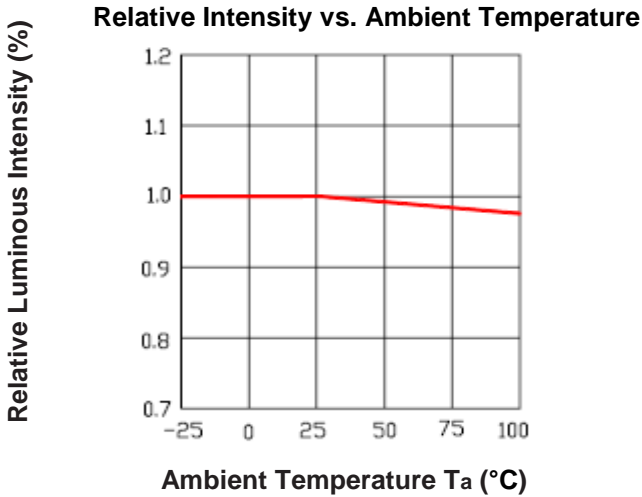
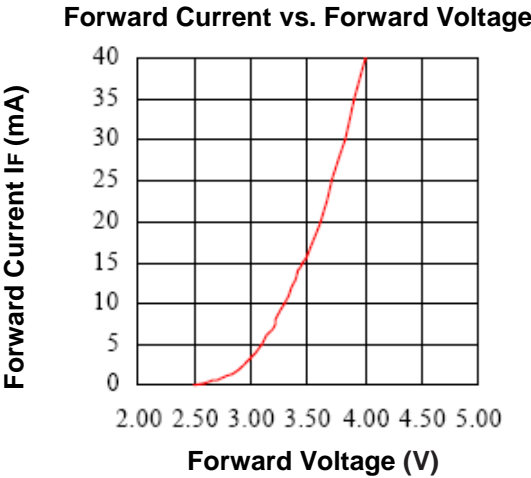
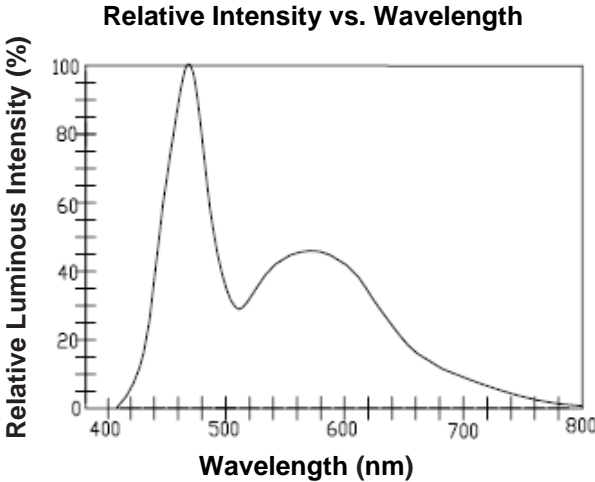
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Flux(Note.1)	Φv	520	780	-----	mlm	IF =20mA
Viewing Angle	2θ1/2	-----	50	-----	deg	
Chromaticity Coordinates (Note.3)	x	-----	0.29	-----	nm	
	y	-----	0.30	-----	nm	
Forward Voltage (Note.2)	VF	-----	3.60	4.00	V	
Reverse Current	IR	-----	-----	10	μA	VR=5V

- Notes:** 1. Tolerance of Luminous Flux: ±15%
2. Tolerance of Forward Voltage: ±0.1V
3. The C.I.E. 1931 chromaticity diagram, the products are sensitive to static electricity and care must be fully taken when handling.

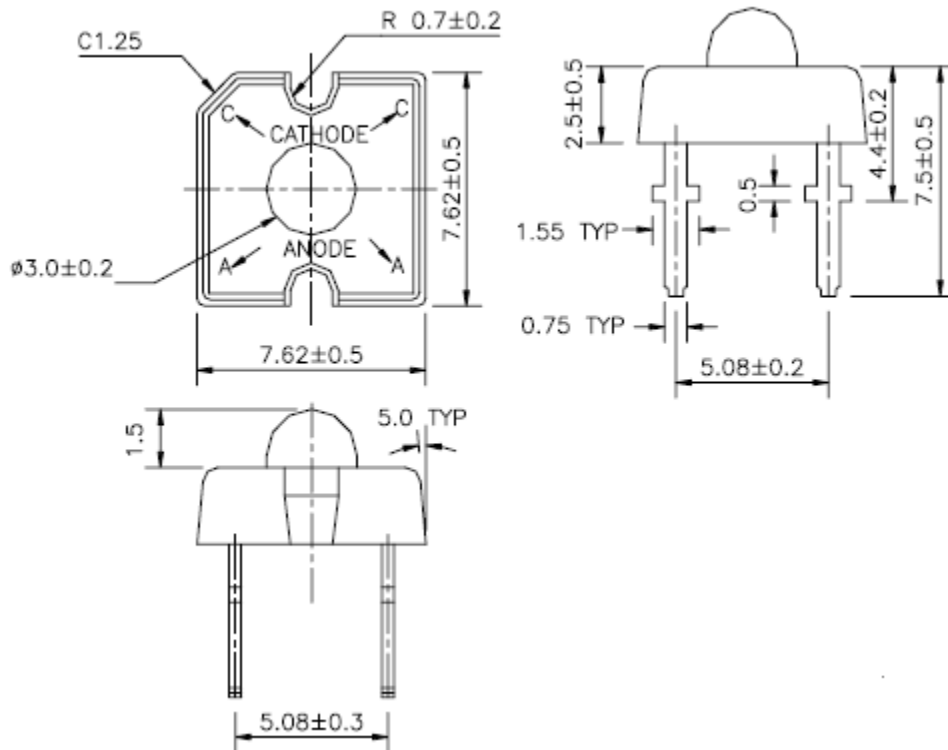
3mm Dome Power LED

TLH-W1W3-30011B

Typical Electro-Optical Characteristics Curves (Ta=25°C)



Package Dimensions (In mm)



Notes:

1. All dimensions are in millimeters, and tolerance is 0.25mm without special declared.
2. An epoxy meniscus may extend about 1.5mm (0.059") down the lead.

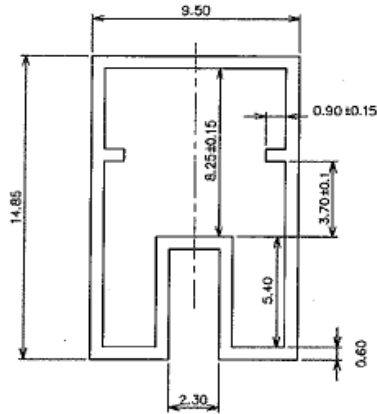
Packing Information

Packing Type	PCS per Tube	PCS Per Inner Box	PCS Per Carton
Tube	60	1,200	14,400

Packing Specification

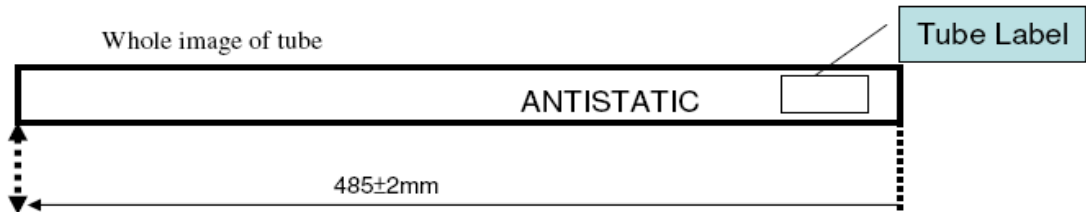
1. Tube

Cross section image of tube

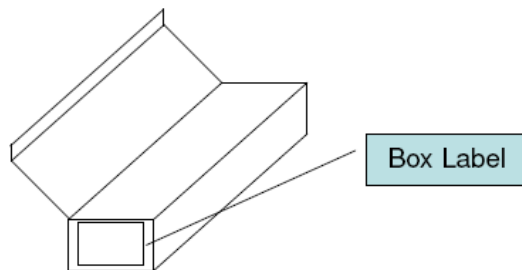


Unit: mm

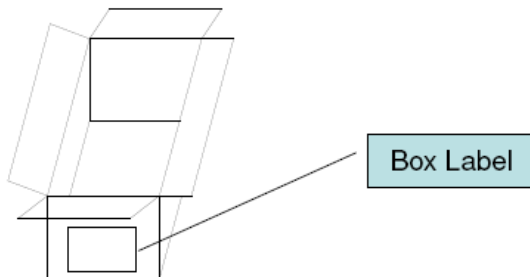
Whole image of tube



2. Inner Box

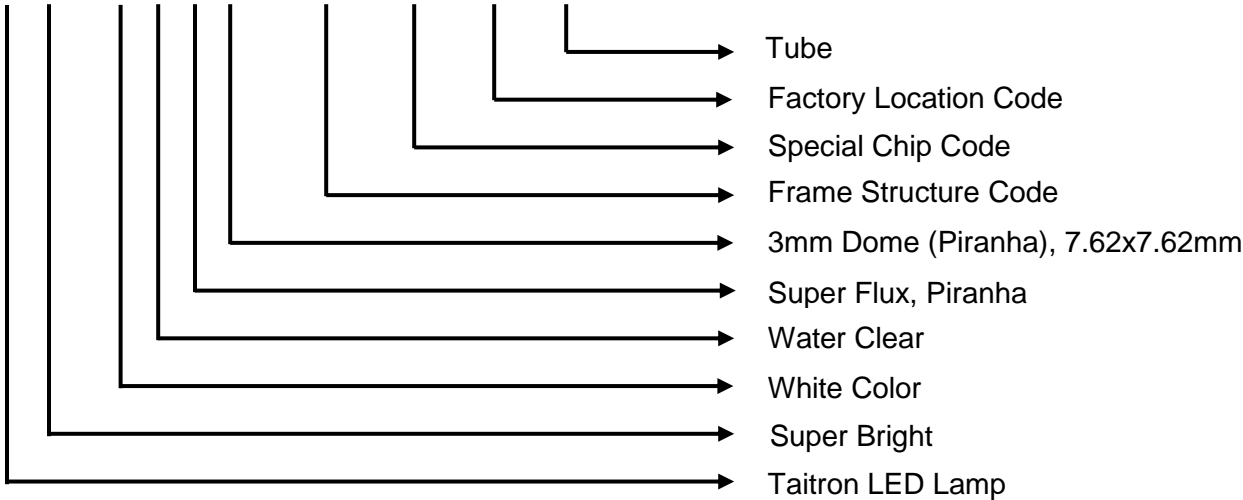


3. Carton (out box)



Ordering Information

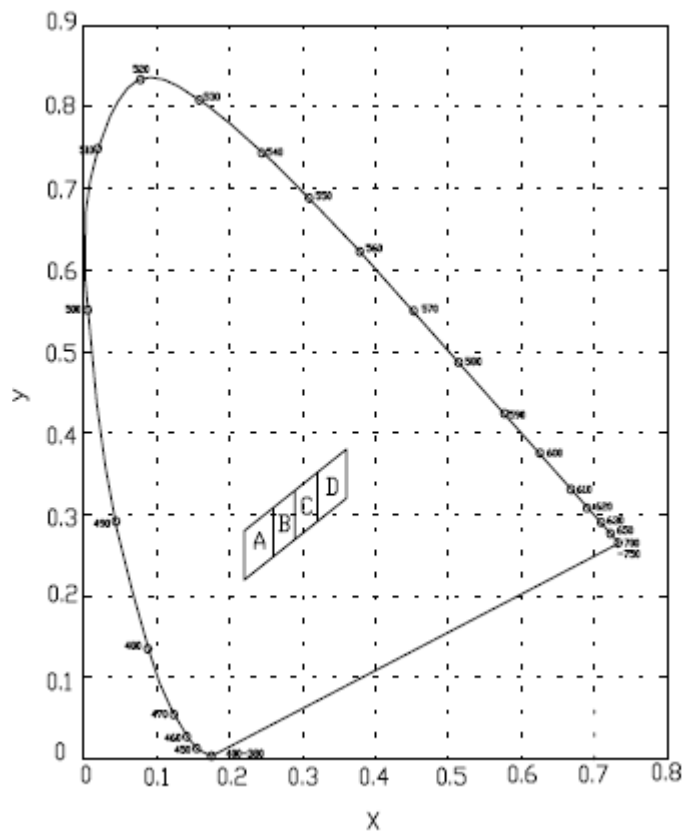
TL H - W 1 W 3 - 3001 1B - 92 - C



Chromaticity Coordinates Specifications for Bin Grading

Rank	Chromaticity Coordinates				
	A	x	0.220	0.220	0.260
	y	0.220	0.280	0.310	0.250
B	x	0.260	0.260	0.290	0.290
	y	0.250	0.310	0.330	0.270
C	x	0.290	0.290	0.320	0.320
	y	0.270	0.330	0.350	0.290
D	x	0.320	0.320	0.360	0.360
	y	0.290	0.350	0.380	0.320
* Tolerance	$x \pm 0.02$			$y \pm 0.02$	

CIE Chromaticity Diagram



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