



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Technical Data Sheet

5.0 mm Round LED (T-1 3/4)

3384-15UTC/S400-X10

Features

- Popular T-1 colorless 5mm package.
- High luminous power.
- Typical chromaticity coordinates $x=0.29$, $y=0.28$ according to CIE1931.
- Bulk, available taped on reel.
- Pb free .
- The product itself will remain within RoHS compliant version.



Descriptions

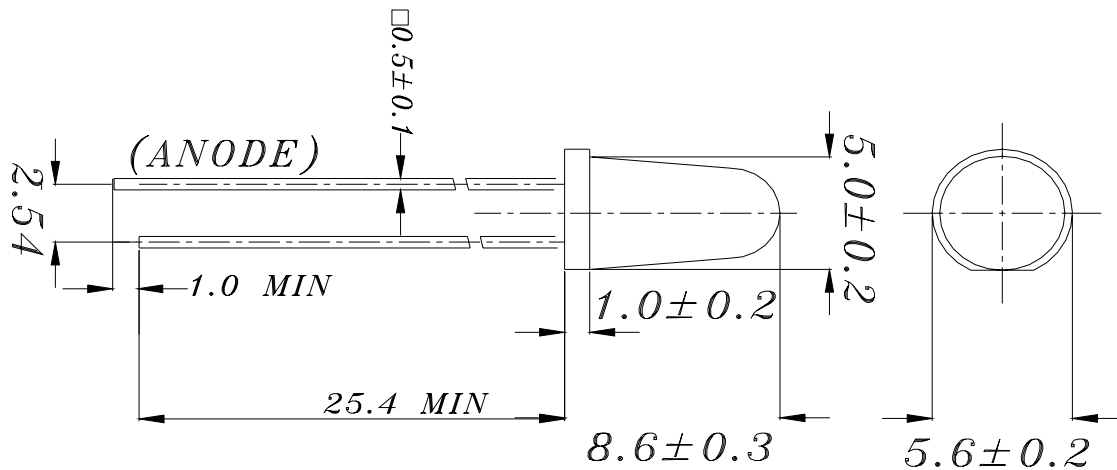
- The series is designed for application required high luminous intensity.
- The phosphor filled in the reflector converts the blue emission of InGaN chip to ideal white.

Applications

- Outdoor Displays
- Optical Indicators
- Backlighting
- Marker Lights

Device Selection Guide

PART NO.	Chip		Lens Color
	Material	Emitted Color	
3384-15UTC/S400-X10	InGaN/Sapphire	White	Water Clear

Package Dimensions

Notes:

1. All dimensions are in millimeters, and tolerance is 0.25mm except being specified.
2. Lead spacing is measured where the lead emerges from the package.
3. Protruded resin under flange is 1.5mm Max. LED.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I_F	25	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Soldering Temperature (T=5 sec)	T_{sol}	260 ± 5	°C
Power Dissipation	P_d	110	mW
Electrostatic Discharge	ESD	150	V



3384-15UTC/S400-X10

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Forward Voltage	V_F	$I_F=20\text{mA}$	--	3.2	4.0	V
Reverse Current	I_R	$V_R=5\text{V}$	--	--	50	μA
Luminous Intensity	I_V	$I_F=20\text{mA}$	8000	10000	--	mcd
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	--	20	--	deg
Chromaticity Coordinates	x	$I_F=20\text{mA}$	--	0.29	--	--
	y	---	--	0.28	--	--

Luminous Intensity Combination (mcd at 20mA)

I_V Ranks	Z1	Z2	Z3
Min.	8000	10000	13000
Max.	10000	13000	17000

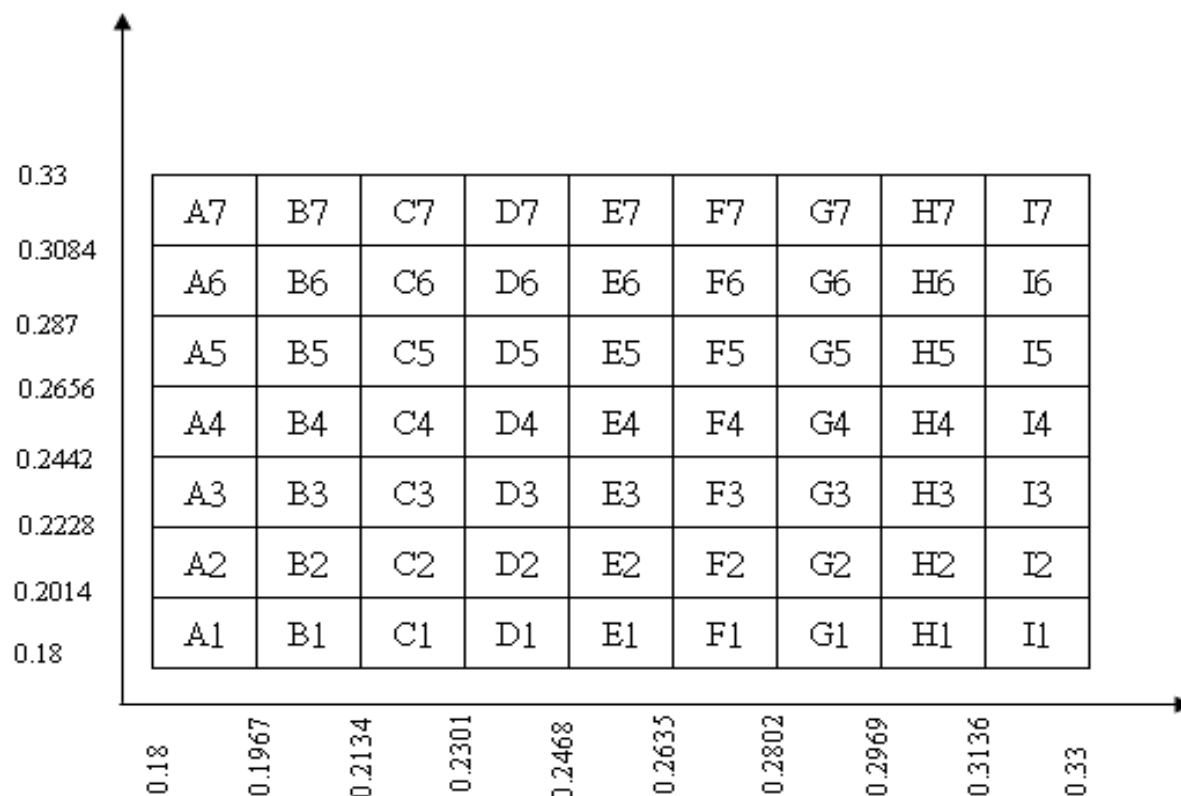
Measurement Uncertainty of Luminous Intensity: $\pm 15\%$

Forward Voltage Combination (V at 20mA)

V_F Ranks	1	2	3	4	5
Min.	3.0	3.2	3.4	3.6	3.8
Max.	3.2	3.4	3.6	3.8	4.0

Measurement Uncertainty of Forward Voltage : $\pm 0.05\text{V}$

CIE Chromaticity Diagram ($I_F=20\text{mA}$, $T_a=25^\circ\text{C}$)

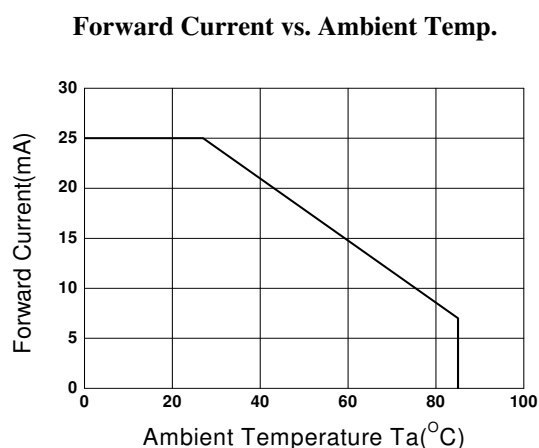
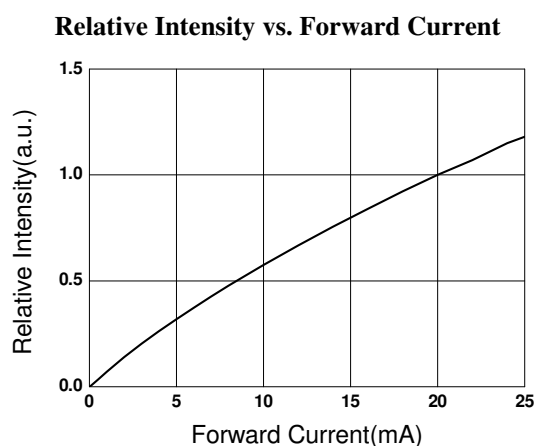
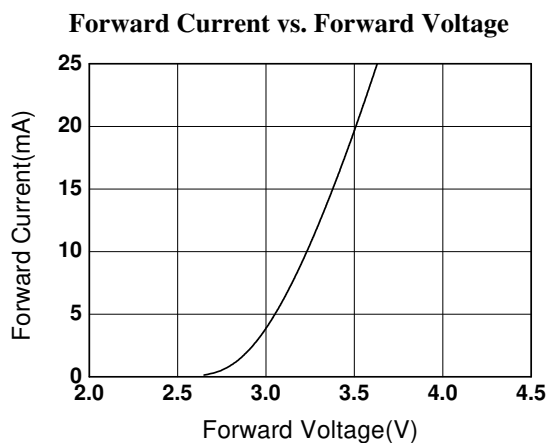
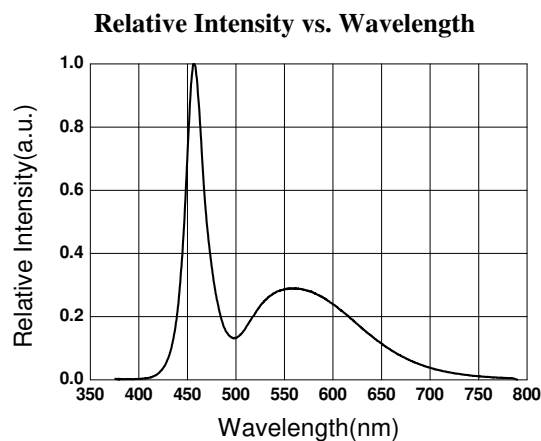


Measurement uncertainty of the color coordinates : ± 0.01

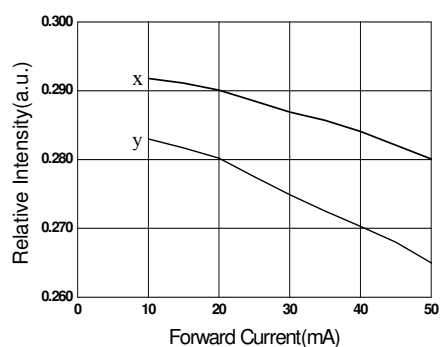
Note:

- 1.The setting and inspection for this device please flow the area of x y chromaticity diagram.
- 2.Take the upper and lower point for x-axis and y-axis and then put it same parts, x-axis divide into 9 section, y-axis divide into 7 section, total is 63 bins.

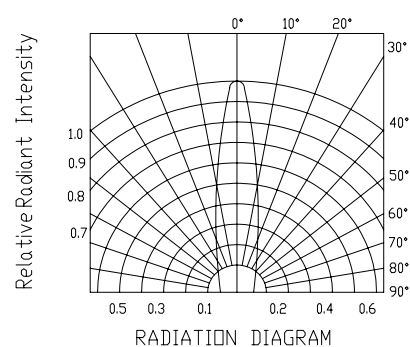
Typical Electro-Optical Characteristics Curves



Chromaticity Coordinate vs. Forward Current



Relative Intensity vs. Angle Dispacemen





3384-15UTC/S400-X10

Label Form Specification

The diagram shows a rectangular label with the following elements:

- Top left: A circle containing the letters "Pb".
- Top center: A rectangle containing the word "EVERLIGHT".
- Top right: A circle containing the letter "X".
- Below "Pb": The text "CPN:" followed by "P/N:" and a barcode.
- Below the first barcode: The text "3384-15UTC/S400-X10".
- Below the second barcode: The text "QTY:" followed by a barcode.
- Below the third barcode: The text "LOT NO:" followed by a barcode.
- Below the fourth barcode: The text "REFERENCE:" followed by a barcode.
- Below the "QTY:" barcode: The text "CAT:", "HUE:", and "REF:".
- Bottom right: A rectangle containing the text "RoHS".

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: IV&VF Rank

HUE: Color Rank

REF: Reference

LOT No: Lot Number

Notes

1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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