



Technical Data Sheet

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

3384-15UTC/S400-X9

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

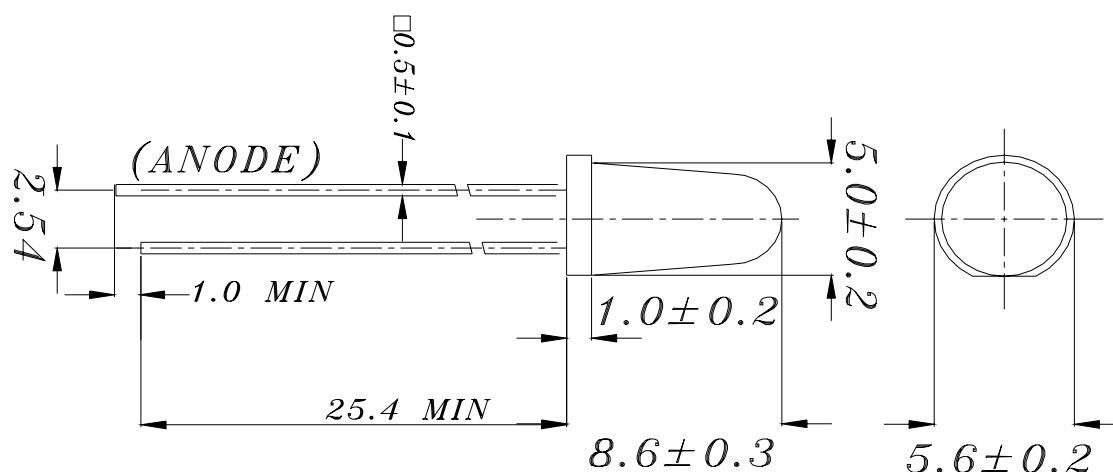
- The series is designed for application required high luminous intensity.
- The phosphor filled in the reflector converts the blue emission of InGaN chip to ideal white.

Applications

- Outdoor Displays
- Optical Indicators
- Backlighting
- Marker Lights

Device Selection Guide

PART NO.	Chip		Lens Color
	Material	Emitted Color	
3384-15UTC/S400-X9	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



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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	$I_F=20\text{mA}$	5000	8000	--	mcd
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	--	15	--	deg
Chromaticity Coordinates	x	$I_F=20\text{mA}$	--	0.29	--	--
	y	---	--	0.28	--	--

Luminous Intensity Combination (mcd at 20mA)

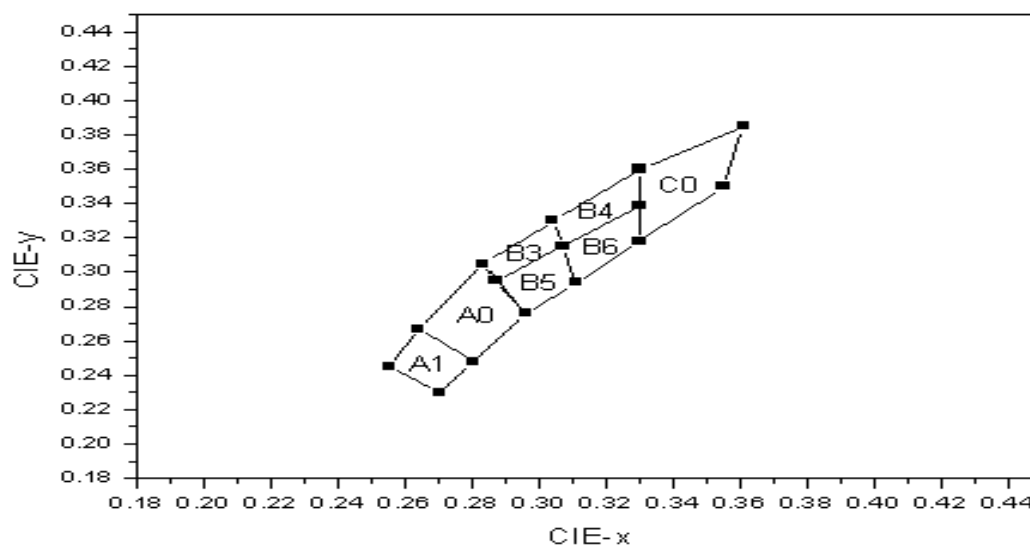
I_V Ranks	Z	Z1	Z2	Z3
Min.	5000	8000	11000	14000
Max.	8000	11000	14000	17000

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

Forward Voltage Combination (V at 20mA)

V_F Ranks	0	1	2	3	4	5
Min.	2.8	3.0	3.2	3.4	3.6	3.8
Max.	3.0	3.2	3.4	3.6	3.8	4.0

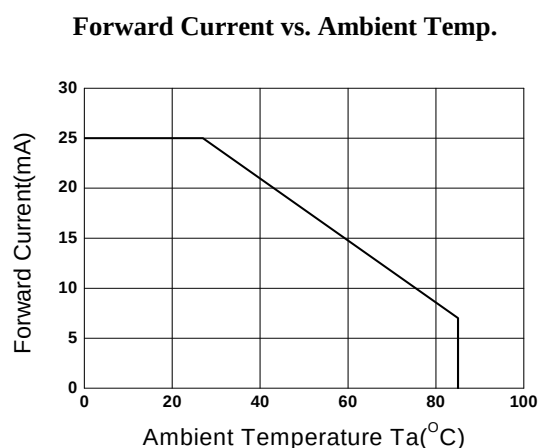
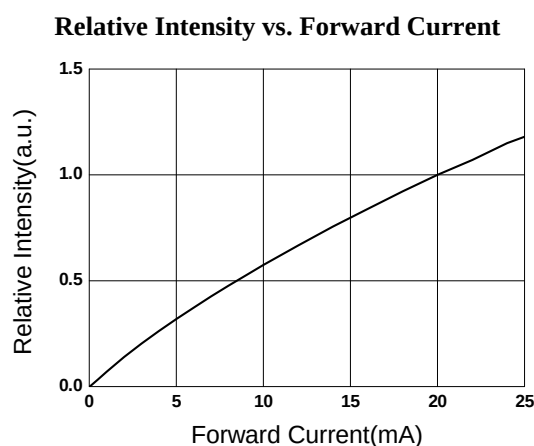
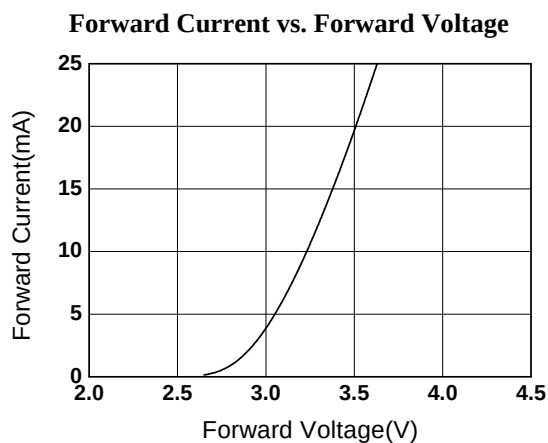
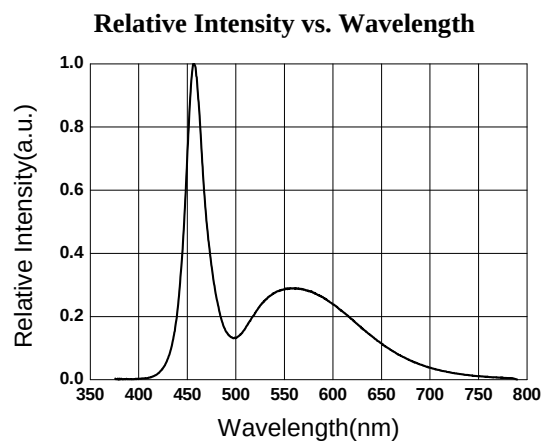
Measurement Uncertainty of Forward Voltage : $\pm 0.05\text{V}$

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

Color Ranks ($I_F=20\text{mA}$, $T_a=25^\circ\text{C}$)

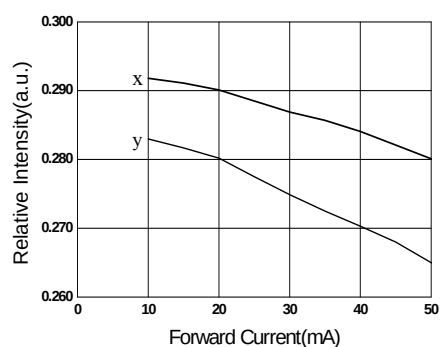
Color Ranks		CIE			
A1	X	0.255	0.264	0.28	0.27
	Y	0.245	0.267	0.248	0.23
A0	X	0.264	0.283	0.296	0.28
	Y	0.267	0.305	0.276	0.248
B3	X	0.283	0.304	0.307	0.287
	Y	0.305	0.33	0.315	0.295
B4	X	0.304	0.33	0.33	0.307
	Y	0.33	0.36	0.339	0.315
B5	X	0.287	0.307	0.311	0.296
	Y	0.295	0.315	0.294	0.276
B6	X	0.307	0.33	0.33	0.311
	Y	0.315	0.339	0.318	0.294
C0	X	0.33	0.361	0.355	0.33
	Y	0.36	0.385	0.35	0.318

Measurement uncertainty of the color coordinates : ± 0.01

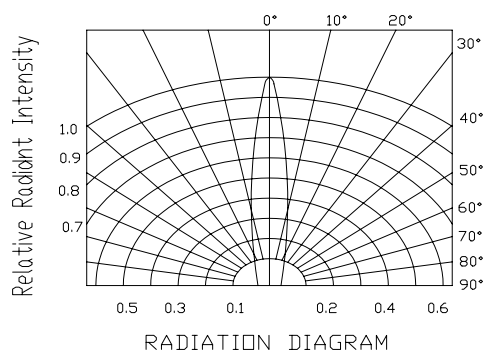
Typical Electro-Optical Characteristics Curves



Chromaticity Coordinate vs. Forward Current



Relative Intensity vs. Angle Dispacemen





3384-15UTC/S400-X9

Label Form Specification

The diagram shows a rectangular label form with the following elements:

- Top left: A circle containing the letters "Pb".
- Top center: A rectangular box containing the word "EVERLIGHT".
- Top right: A circle containing the letter "X".
- Below "Pb": The text "CPN:" followed by a barcode.
- Below "CPN": The text "P/N:" followed by a barcode.
- Below "P/N": The text "3384-15UTC/S400-X9".
- Below "3384-15UTC/S400-X9": The text "QTY:" followed by a barcode.
- Below "QTY": The text "LOT NO:" followed by a barcode.
- Below "LOT NO": The text "REFERENCE:" followed by a barcode.
- Below "REFERENCE": A barcode.
- Below "QTY": The text "CAT:" followed by a space.
- Below "CAT": The text "HUE:" followed by a space.
- Below "HUE": The text "REF:" followed by a space.
- Bottom right: A rectangular box 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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