

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

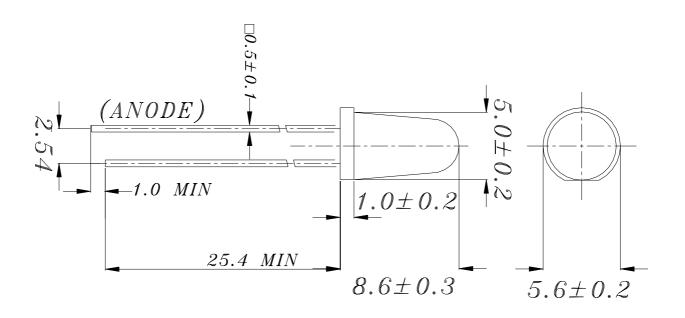
Device Selection Guide

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

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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.

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	120	mW
Electrostatic Discharge	ESD	150	V

Absolute Maximum Ratings (Ta=25°C)

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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Units
Forward Voltage	$V_{\rm F}$	I _F =20mA		3.2	4.0	V
Reverse Current	I _R	V _R =5V			50	uA
Luminous Intensity	I _V	I _F =20mA	8000	10000		mcd
Viewing Angle	2 0 1/2	I _F =20mA		20		deg
Chromaticity	Х	I _F =20mA		0.29		
Coordinates	у			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: ±15%

Forward Voltage Combination (V at 20mA)

V _F Rank	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 : $\pm 0.1V$

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CIE Chromaticity Diagram]

Color Ranks (IF=20mA , Ta=25°C)

0.33		A7	В7	C7	D7	E7	F7	G7	H7	17	
0.3084		A6	B6	C6	D6	E6	F6	G6	H6	I6	
0.287		A5	B5	C5	D5	E5	F5	G5	H5	15	
0.2656 0.2442		A4	B4	C4	D4	E4	F4	G4	H4	I4	
0.2228		A3	B3	C3	D3	E3	F3	G3	H3	I3	
0.2014		A2	B2	C2	D2	E2	F2	G2	H2	12	
0.18		A1	B1	C1	D1	E1	F1	Gl	H1	I1	
	L	× 1.0	/0/1.0	10.201	0.2468		0.2635	0 2060	0.3136	0.33)

Measurement uncertainty of the color coordinates : ±0.01

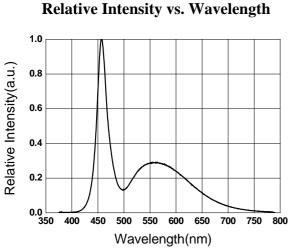
Note:

The setting and inspection for this device please flow the area of x y chromaticity diagram.

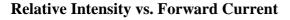
Take the upper and lower point for x-axis and y-axis and then put it same parts, x-axis divide into 9 section, y-axis divide into 6 section, total is 63 bins.

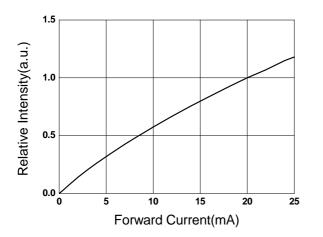
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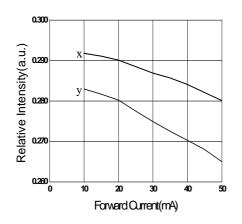


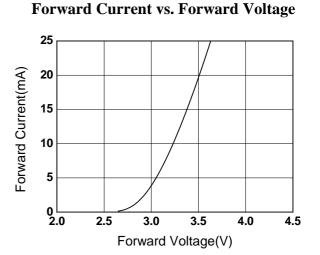
Typical Electro-Optical Characteristics Curves



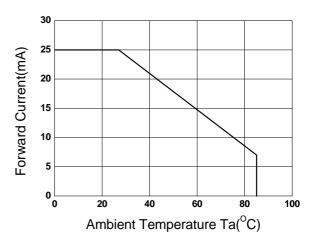


Chromaticity Coordinate vs. Forward Current

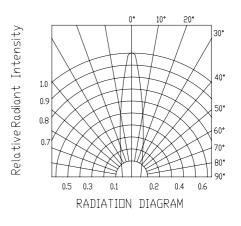




Forward Current vs. Ambient Temp.



Relative Intensity vs. Angle Dispacemen



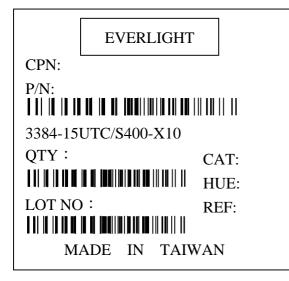
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Label Form Specification



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 MADE IN TAIWAN: Production Place

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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