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

334-15AUTC/H0/S400-X10(NA)

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.

ESD-withstand voltage: up to 4KV

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.

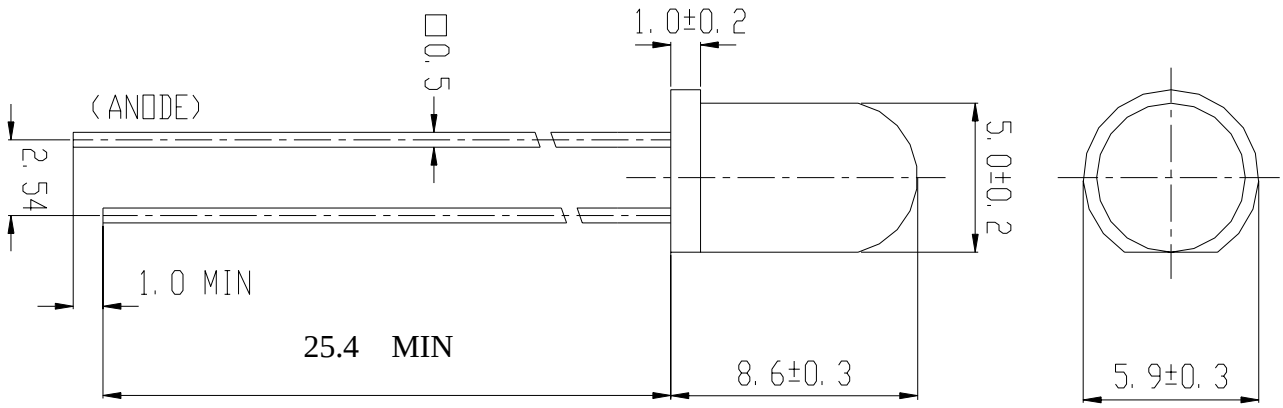
Applications

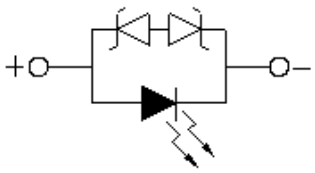
- Outdoor Displays
- Optical Indicators
- Backlighting
- Marker Lights

Device Selection Guide

PART NO.	Chip		Lens Color
	Material	Emitted Color	
334-15AUTC/H0/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℃)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I_F	25	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-30 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
Soldering Temperature (T=5 sec)	T_{sol}	260 ± 5	℃
Power Dissipation	P_d	120	mW
Electrostatic Discharge	ESD	4500	V

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Forward Voltage	V_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	630	1250	--	mcd
Viewing Angle	2θ 1/2	I_F=20mA	--	35	--	deg
Chromaticity Coordinates	x	I_F=20mA	--	0.29	--	
	y	------	--	0.28	--	

Luminous Intensity Combination (mcd at 20mA)

I_V Ranks	X	Y	Z	Z1
Min.	630	945	1418	2127
Max.	945	1418	2127	----

Measurement Uncertainty of Luminous Intensity: ±15%

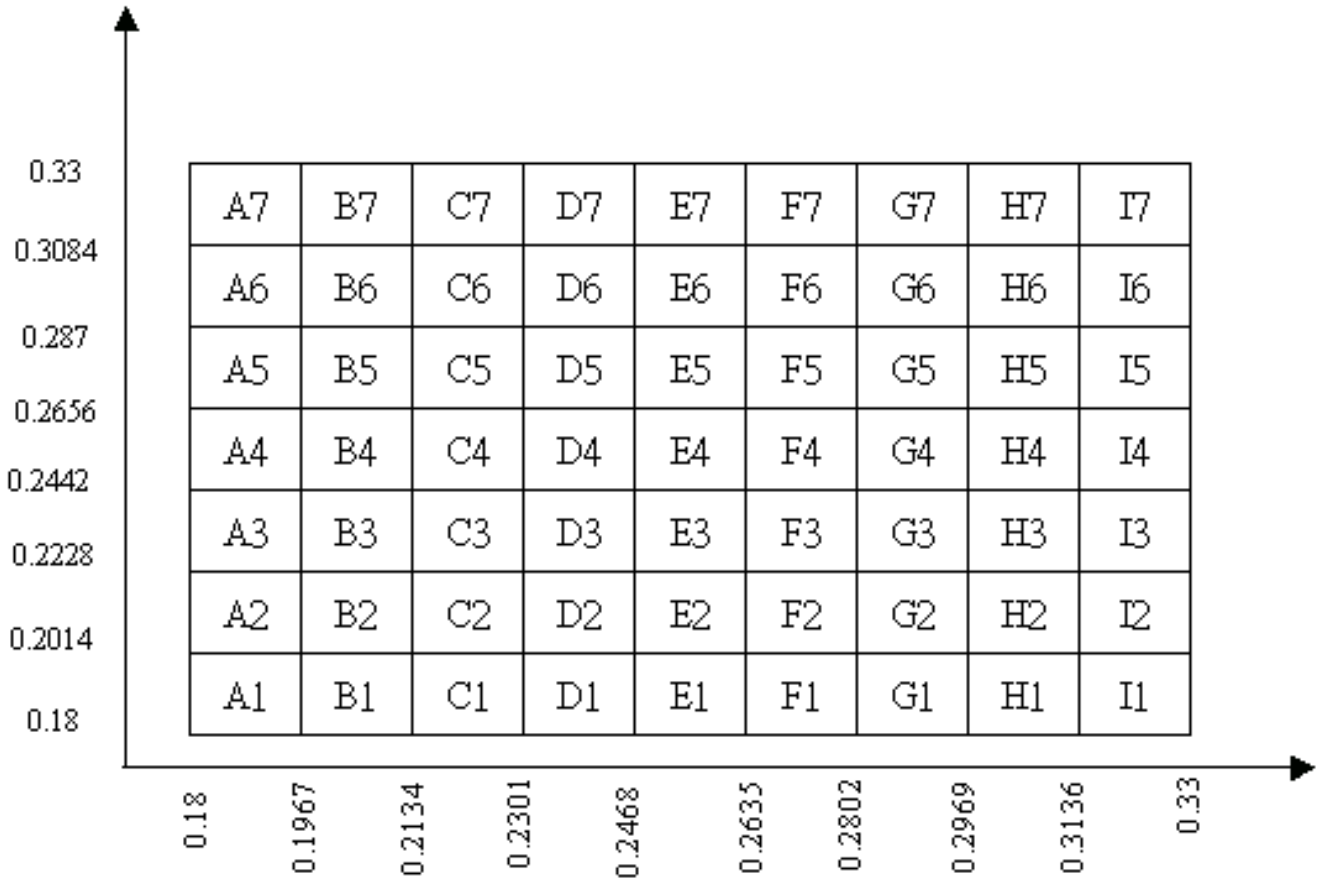
Forward Voltage Combination (V at 20mA)

V_F Rank	1	2	3	5	6
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：±0.1V

CIE Chromaticity Diagram]

Color Ranks (IF=20mA，Ta=25℃)



Measurement uncertainty of the color coordinates：±0.01

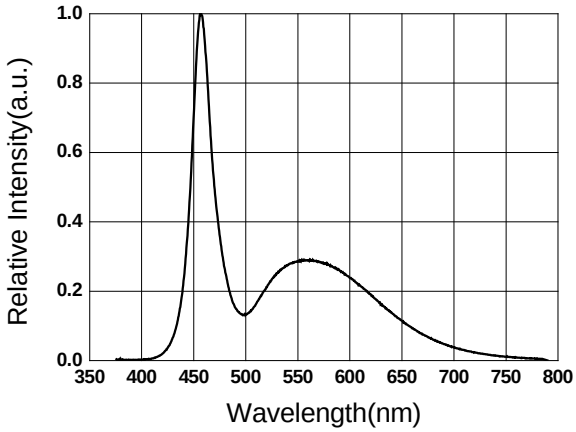
Note:

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

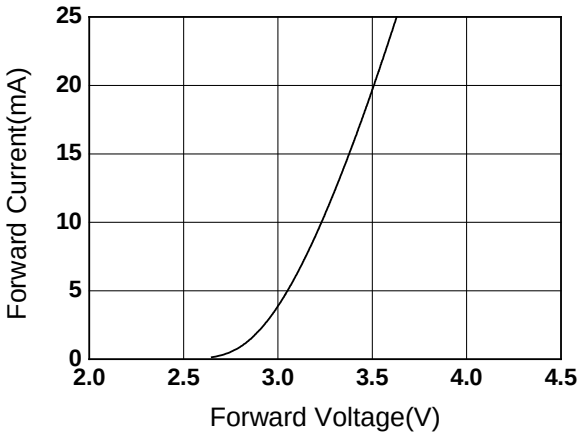
Take the upper and lower point for x-axis and y-axis and then put it same parts, x-axis divide into 9 section, y-axis divide into 6 section, total is 63 bins.

Typical Electro-Optical Characteristics Curves

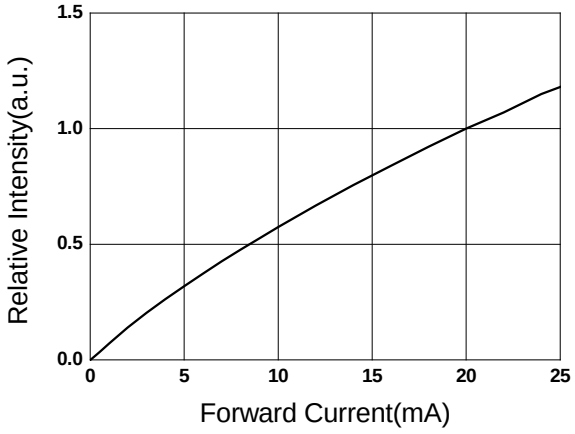
Relative Intensity vs. Wavelength



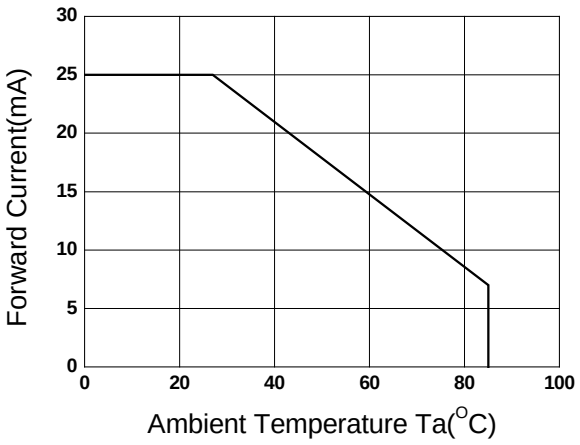
Forward Current vs. Forward Voltage



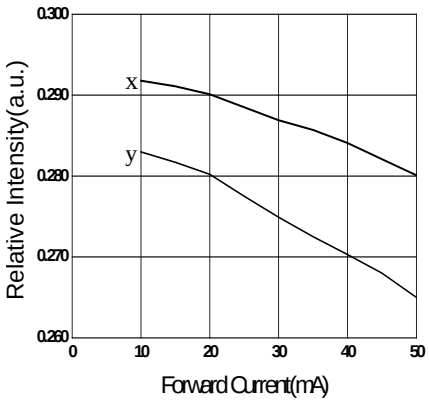
Relative Intensity vs. Forward Current



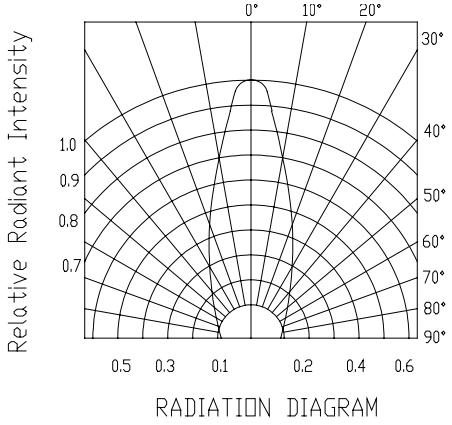
Forward Current vs. Ambient Temp.



Chromaticity Coordinate vs. Forward Current



Relative Intensity vs. Angle Dispacemen



Label Form Specification

EVERLIGHT
CPN:
P/N:
334-15AUTC/H0/S400-X10(NA)
QTY：
CAT:
HUE:
LOT NO：
REF:
MADE IN TAIWAN

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.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.
4. When the LED is connected using serial circuit, if either piece of LED is no light up but current can't flow through causing others to light down. In new design, the LED is parallel with zener diode. if either piece of LED is no light up but current can flow through causing others to light up