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Preliminary

334-15/T1C1-4WYA

Features

- Popular T-1 3/4 colorless 5mm package.
- High luminous power.
- Typical chromaticity coordinates x=0.30, y=0.29 according to CIE1931.
- Bulk, available taped on reel.
- ESD-withstand voltage: up to 4KV
- 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

DA DE NO	Cł			
PART NO.	Material	Emitted Color	Lens Color	
334-15/T1C1-4WYA	InGaN	White	Water Clear	

http\\:www.everlight.com

Everlight Electronics Co., Ltd.

Device Number: Established date:3-7-2007

Rev:

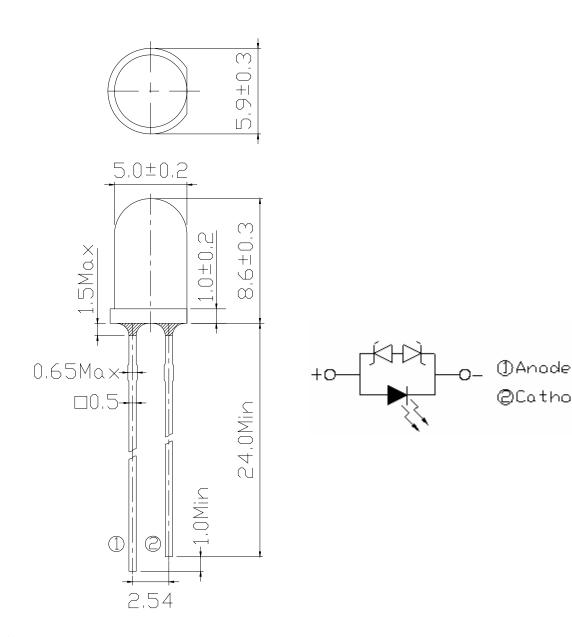
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Package Dimensions



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.

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Absolute Maximum Ratings (Ta=25°C)

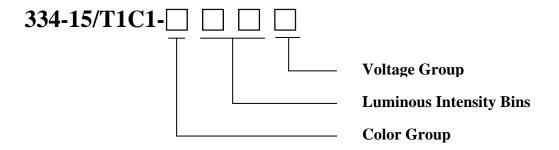
Parameter	Symbol	Rating	Unit
Continuous Forward Current	${ m I_F}$	30	mA
Peak Forward Current(Duty /10 @ 1KHZ)	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Operating Temperature	$T_{ m opr}$	-40 ~ +85	$^{\circ}$
Storage Temperature	$T_{ m stg}$	-40 ~ +100	$^{\circ}$
Soldering Temperature (T=5 sec)	T_{sol}	260 ± 5	$^{\circ}$
Power Dissipation	P_d	100	mW
Zener Reverse Current	Iz	100	mA
Electrostatic Discharge	ESD	4K	V



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Production Designation



Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Units
Forward Voltage	V_{F}	I _F =20mA	3.0		3.6	V
Zener Reverse Voltage	Vz	Iz=5mA	5.2			V
Reverse Current	I_R	V _R =5V			50	uA
Luminous Intensity	I_{V}	I _F =20mA	14250		28500	mcd
Viewing Angle	2 0 1/2	I _F =20mA		15		deg
Chromaticity Coordinates	X	I 20 A		0.30		
Chromaticity Coordinates	у	I _F =20mA		0.29		

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Luminous Intensity Combination (mcd at 20mA)

Rank	Min	Max
W	14250	18000
X	18000	22500
Y	22500	28500

^{*}Measurement Uncertainty of Luminous Intensity: ±15%

Forward Voltage Combination (V at 20mA)

Group	A				
Rank	0 1 2 3				
Min.	2.80	3.00	3.20	3.40	
Max.	3.00	3.20	3.40	3.60	

^{*}Measurement Uncertainty of Forward Voltage: ±0.1V

Color Combination (at 20mA)

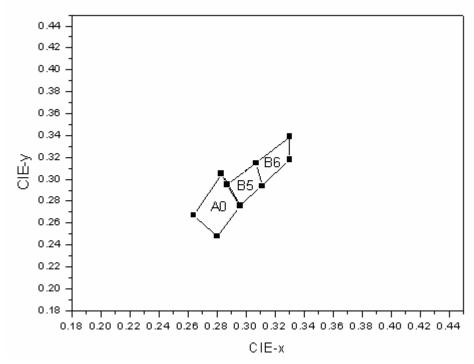
Group	Bins
4	A0+B5+B6



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CIE Chromaticity Diagram



Color Ranks (IF=20mA, Ta=25°C)

Color Ran	ks	CIE			
4.0	X	0.264	0.283	0.296	0.28
A0	Y	0.267	0.305	0.267	0.248
D.E	X	0.287	0.307	0.311	0.296
B5	Y	0.295	0.315	0.294	0.276
В6	X	0.307	0.33	0.33	0.311
	Y	0.315	0.339	0.318	0.294

^{*}Measurement uncertainty of the color coordinates: ±0.01

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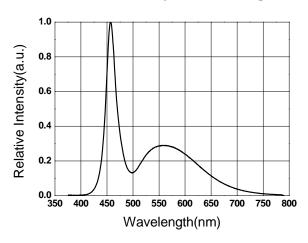


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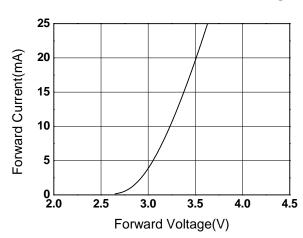
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Typical Electro-Optical Characteristics Curves

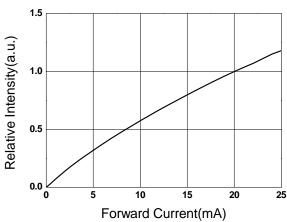
Relative Intensity vs. Wavelength



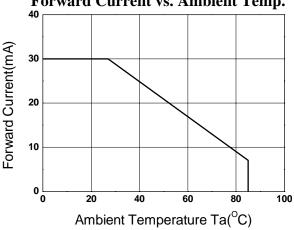
Forward Current vs. Forward Voltage



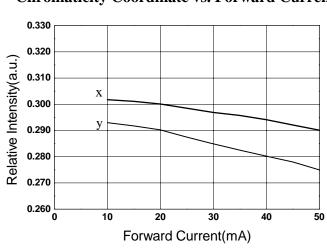
Relative Intensity vs. Forward Current



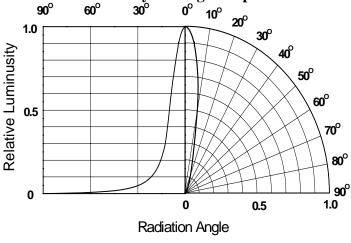
Forward Current vs. Ambient Temp.



Chromaticity Coordinate vs. Forward Current



Relative Intensity vs. Angle Displacement



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Packing Quantity Specification

- 1. 500PCS/1Bag , 5Bags/1Box
- 2. 10Boxes/1Carton

Label Form Specification

EVERLIGHT

CPN:

P/N:

334-15/T1C1-4WYA

QTY:

CAT:

HUE:

LOT NO:

REF:

MADE IN TAIWAN

CPN: Customer's Production Number

P/N: Production Number QTY: Packing Quantity

CAT: Ranks of Luminous Intensity and Forward Voltage

HUE: Color Rank REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

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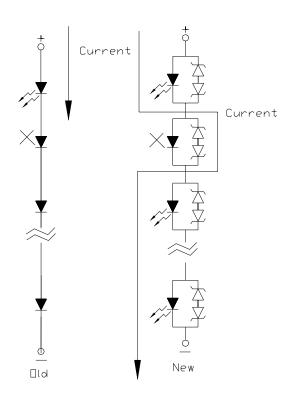


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Notes

- 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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- 4. Below the zener reference voltage Vz, all the current flows through LED and as the voltage rises to Vz, the zener diode "breakdown." If the voltage tries to rise above Vz current flows through the zener branch to keep the voltage at exactly Vz.
- 5. 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



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6. Soldering Condition

Careful attention should be paid during soldering. When soldering, leave more then 3mm from solder joint to case, and soldering beyond the base of the tie bar is recommended.

Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly when soldering.

Recommended soldering conditions:

Hand Soldering		DIP Soldering	
Temp. at tip of iron	400°C Max. (30W Max.)	Preheat temp.	100°C Max. (60 sec Max.)
Soldering time	3 sec Max.	Bath temp.	265 Max.
Distance	3mm Min.(From solder joint to case)	Bath time.	5 sec Max.
		Distance	3mm Min.

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