



Technical Data Sheet

3.0 mm Round LED (T-1)

494-26UTC/S400-X9

Features

- Popular T-1 colorless 3mm 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	
494-26UTC/S400-X9	InGaN	White	Water Clear

Everlight Electronics Co., Ltd.

<http://www.everlight.com>

Rev: 1

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Device Number: DLE-0002633

Established date: 2010/1/30

Established by: Yang

Revision : (1)

LifecyclePhase: 正式發行

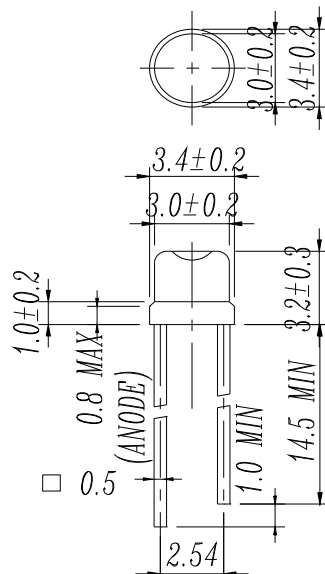
Release Date:

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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.

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	
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 =20mA	2.8	--	4.0	V
Reverse Current	I _R	V _R =5V	--	--	50	uA
Luminous Intensity	I _V	I _F =20mA	150	--	500	mcd
Viewing Angle	2θ _{1/2}	I _F =20mA	--	100	--	deg
Chromaticity Coordinates	x	I _F =20mA	--	0.29	--	--
	y		--	0.28	--	--

Luminous Intensity Combination (mcd at 20mA)

I _V Ranks	A	B	C	D	E
Min.	150	180	215	250	320
Max.	220	270	320	400	500

Measurement Uncertainty of Luminous Intensity: ±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 : ±0.1V

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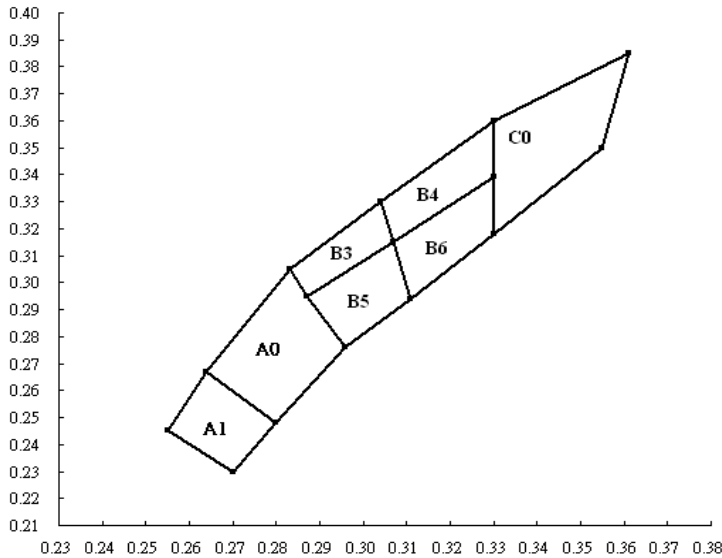
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CIE Chromaticity Diagram ($I_F=20\text{mA}$, $T_a=25$)



Color Ranks		CIE			
A1	X	0.255	0.264	0.28	0.27
	Y	0.245	0.267	0.248	0.23
A0	X	0.283	0.296	0.28	0.264
	Y	0.305	0.276	0.248	0.267
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

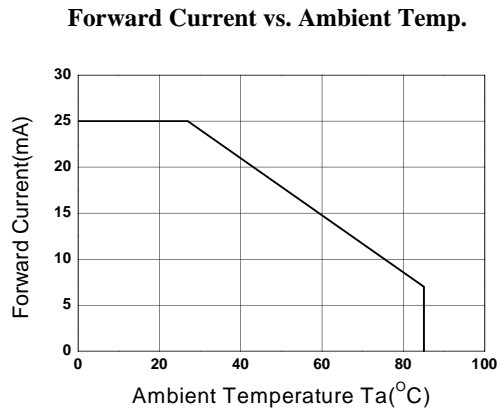
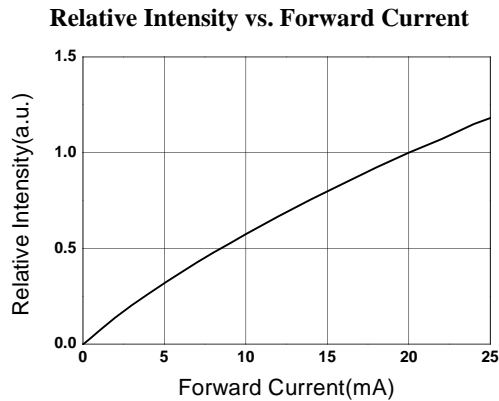
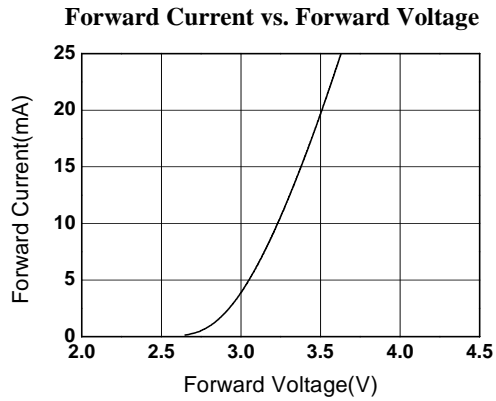
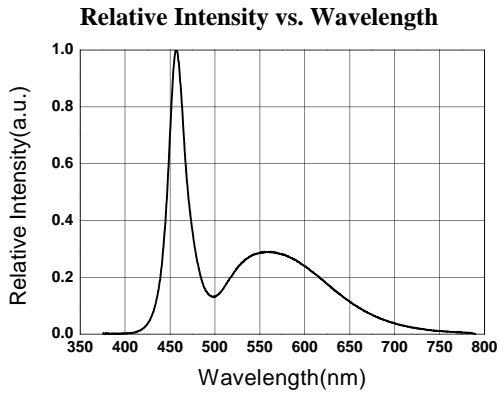
Measurement uncertainty of the color coordinates : ± 0.01

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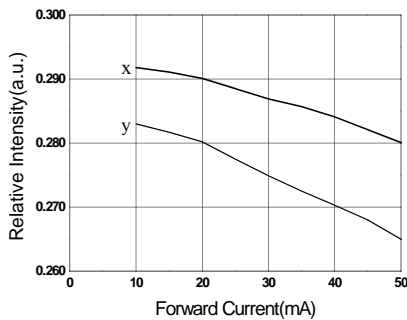
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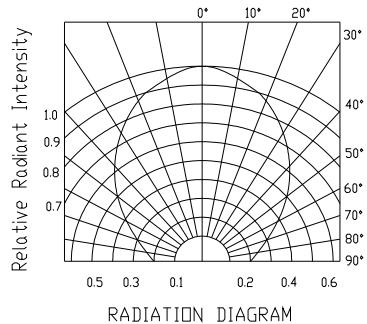
Typical Electro-Optical Characteristics Curves



Chromaticity Coordinate vs. Forward Current



Relative Intensity vs. Angle Dispacemen



文件修訂記錄：(File modified records)

版別 (Rev.)	修訂日期 (Modified date)	文件修訂內容 (File modified contents)	備註 (Notes)
1	2010/1/30	新制定	

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