



Technical Data Sheet

3mm 2Pcs Circuit Board Indicator

A2794B/UTCSUBC/S400-A4

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 .



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.

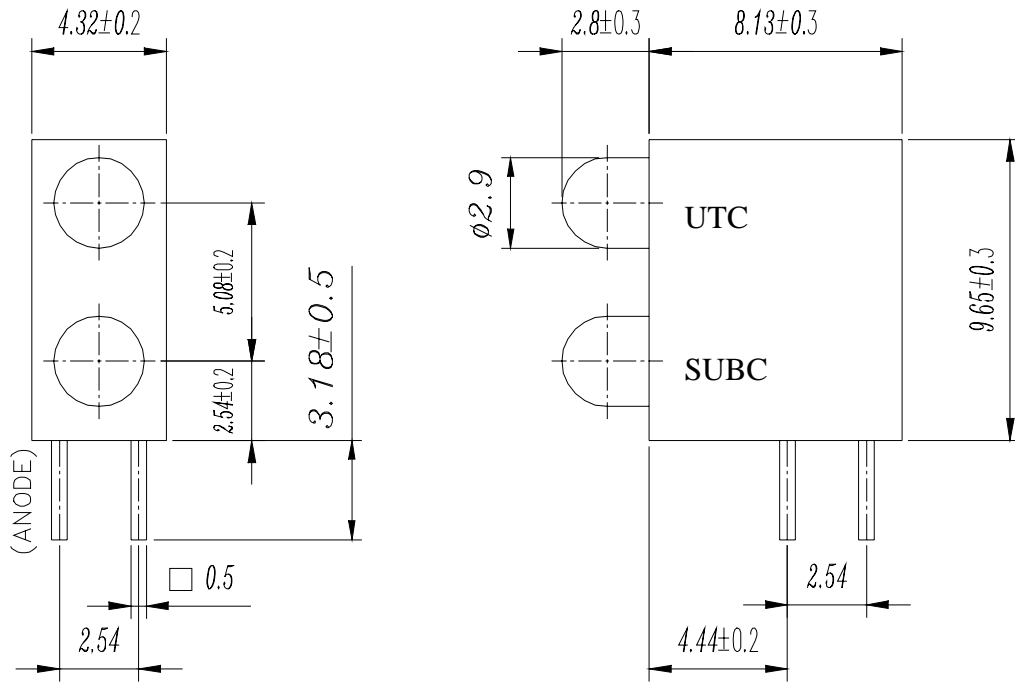
Applications

- Outdoor Displays
- Optical Indicators
- Backlighting
- Marker Lights

Device Selection Guide

PART NO.	Chip		Lens Color
	Material	Emitted Color	
264-15UTC/S400-A4	InGaN/Sapphire	White	Water Clear
264-15SUBC/S400-A4	InGaN/Sapphire	Super Blue	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	120	mW
Electrostatic Discharge	ESD	150	V

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Electro-Optical Characteristics (Ta=25°C) 264-15UTC/S400-A4

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Forward Voltage	V _F	I _F =20mA	--	3.5	4.0	V
Reverse Current	I _R	V _R =5V	--	--	10	uA
Luminous Intensity	I _V	I _F =20mA	400	800	--	mcd
Viewing Angle	2 θ 1/2	I _F =20mA	--	30	--	deg
Chromaticity Coordinates	x	I _F =20mA	--	0.29	--	
	y	-----	--	0.28	--	

Luminous Intensity Combination (mcd at 20mA)

I _V Ranks	U	V	W	X
Min.	400	630	1000	----
Max.	800	1250	2000	-----

Measurement Uncertainty of Luminous Intensity: ±15%

Forward Voltage Combination (V at 20mA)

V _F Rank	1	2	3	4	5	6
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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Electro-Optical Characteristics (Ta=25°C)

264-15SUBC/S400-A4

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Forward Voltage	V _F	I _F =20mA	--	3.5	4.0	V
Reverse Current	I _R	V _R =5V	--	--	10	uA
Luminous Intensity	I _V	I _F =20mA	250	500	--	mcd
Viewing Angle	2 θ 1/2	I _F =20mA	--	30	--	deg
Chromaticity Coordinates	x	I _F =20mA	--	0.29	--	
	y	-----	--	0.28	--	

Luminous Intensity Combination (mcd at 20mA)

I _V Ranks	T	U	V	W
Min.	250	400	630	----
Max.	500	800	1250	----

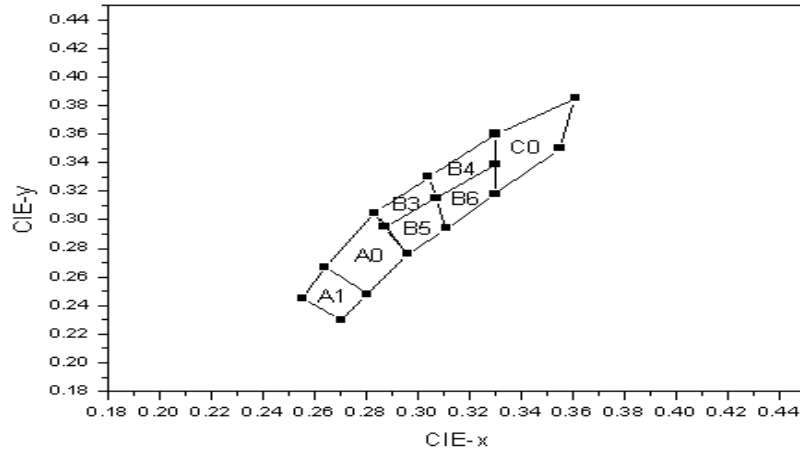
Measurement Uncertainty of Luminous Intensity: ±15%

Forward Voltage Combination (V at 20mA)

V _F Rank	1	2	3	4	5	6
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

CIE Chromaticity Diagram



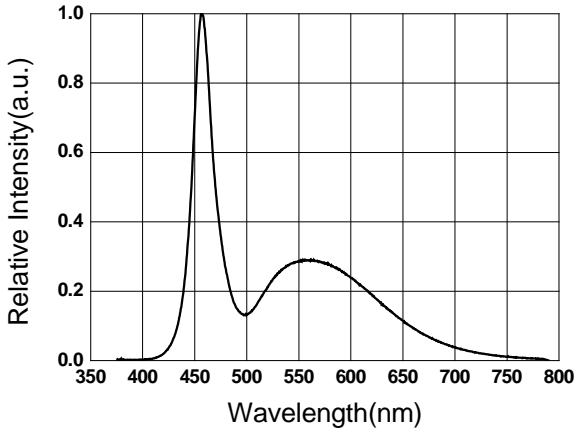
Color Ranks (IF=20mA , Ta=25°C)

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

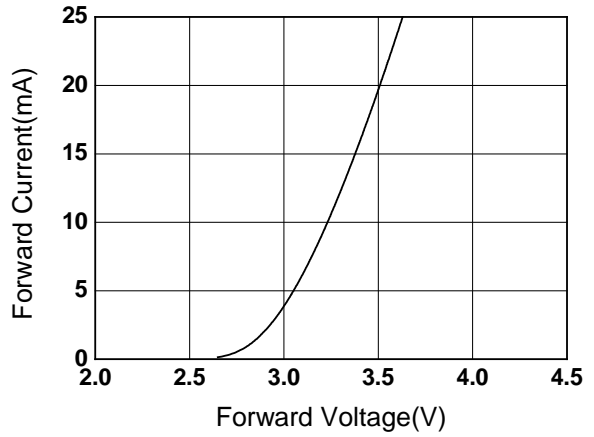
Measurement uncertainty of the color coordinates : ± 0.01

**Typical Electro-Optical Characteristics Curves
(UT)**

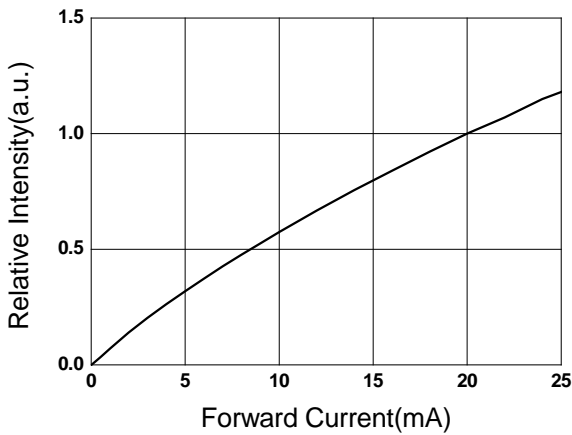
Relative Intensity vs. Wavelength



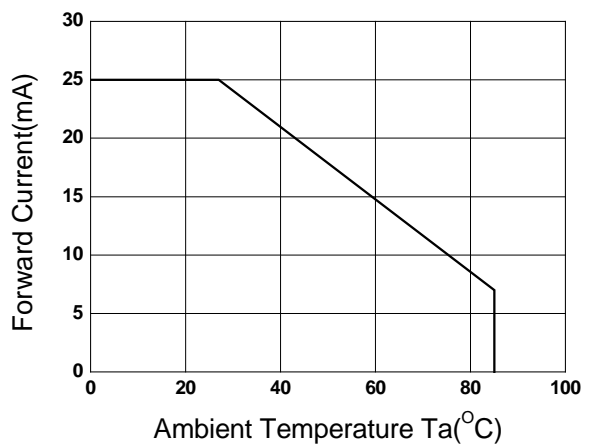
Forward Current vs. Forward Voltage



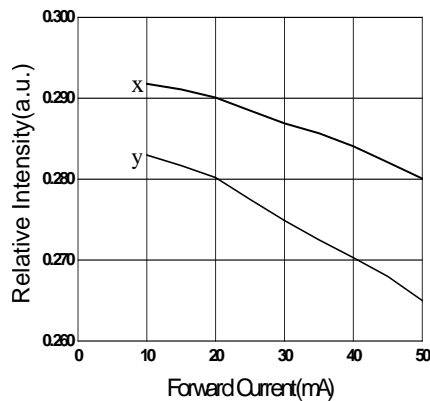
Relative Intensity vs. Forward Current



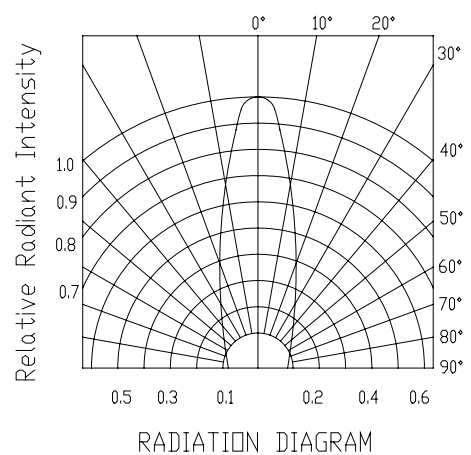
Forward Current vs. Ambient Temp.



Chromaticity Coordinate vs. Forward Current

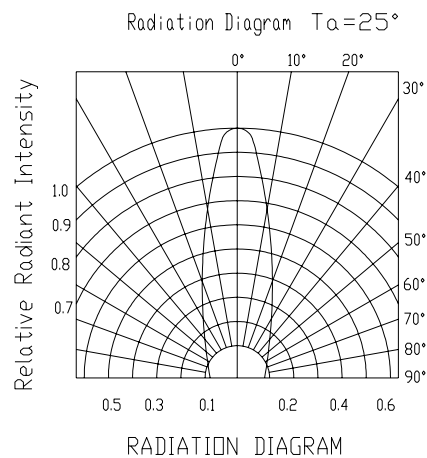
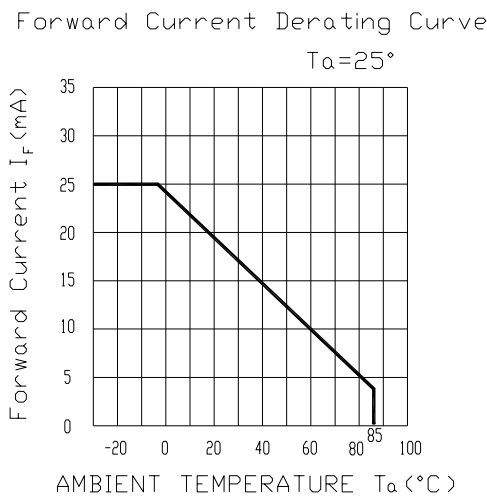
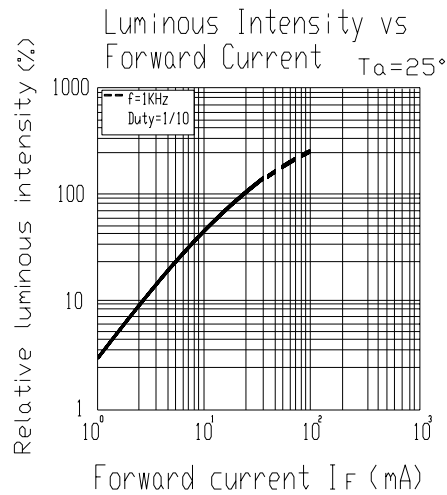
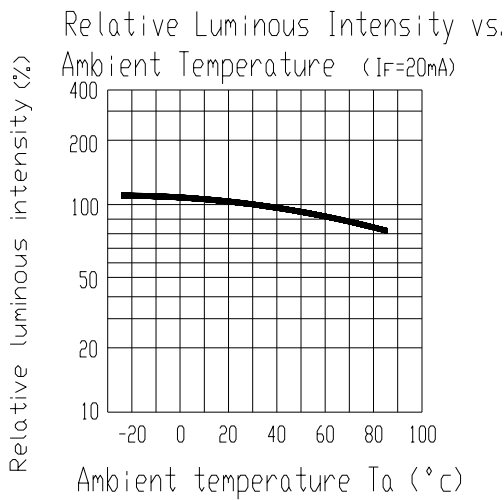
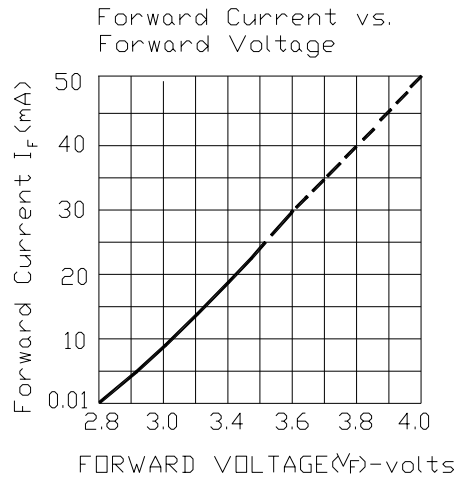
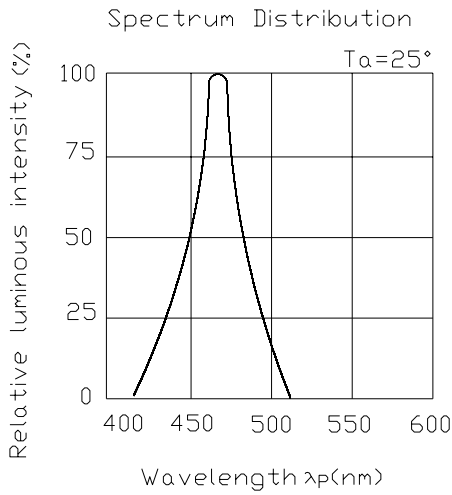


Relative Intensity vs. Angle Dispacemen



Typical Electro-Optical Characteristics Curves

(SUB)





A2794B/UTCSUBC/S400-A4

Label Form Specification

EVERLIGHT	
CPN:	
P/N:	
	
A2794B/UTCSUBC/S400-A4	
QTY :	CAT:
	
LOT NO :	HUE:
	
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.
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