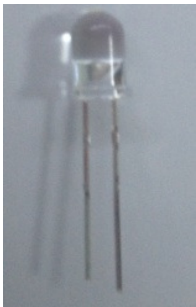


LAMP

334-15/T2C1-1UWA



Features

- Popular T-1 3/4 round package
- High luminous power
- Typical chromaticity coordinates $x=0.29$, $y=0.28$ according to CIE1931
- Bulk, available taped on reel.
- ESD-withstand voltage: up to 4KV
- The product itself will remain within RoHS compliant version

Description

- 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

- Message panels
- Optical Indicators
- Backlighting
- Marker Lights

Device Selection Guide

Chip Materials	Emitted Color	Resin Color
InGaN	White	Water Clear

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I_F	30	mA
Peak Forward Current (Duty 1/10 @ 1KHZ)	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_d	110	mW
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
ESD	ESD_{HBM}	4K	V
Zener Reverse Current	I_z	100	mA
Soldering Temperature	T_{sol}	260 °C for 5 sec.	

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	V_F	2.8	-----	3.6	V	$I_F=20mA$
Zener Reverse Voltage	V_Z	5.2	-----	-----	V	$I_Z=5mA$
Reverse Current	I_R	-----	-----	50	μA	$V_R=5V$
Luminous Intensity	I_v	9000	----	18000	mcd	$I_F=20mA$
Viewing Angle	$2\theta_{1/2}$	----	15	----	deg	$I_F=20mA$
Chromaticity Coordinates	x	----	0.29	----	----	$I_F=20mA$
	y	----	0.28	----	----	

Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
U	9000	11250	mcd	$I_F = 20\text{mA}$
V	11250	14250		
W	14250	18000		

Note:
Tolerance of Luminous Intensity: $\pm 10\%$

Forward Voltage Combination

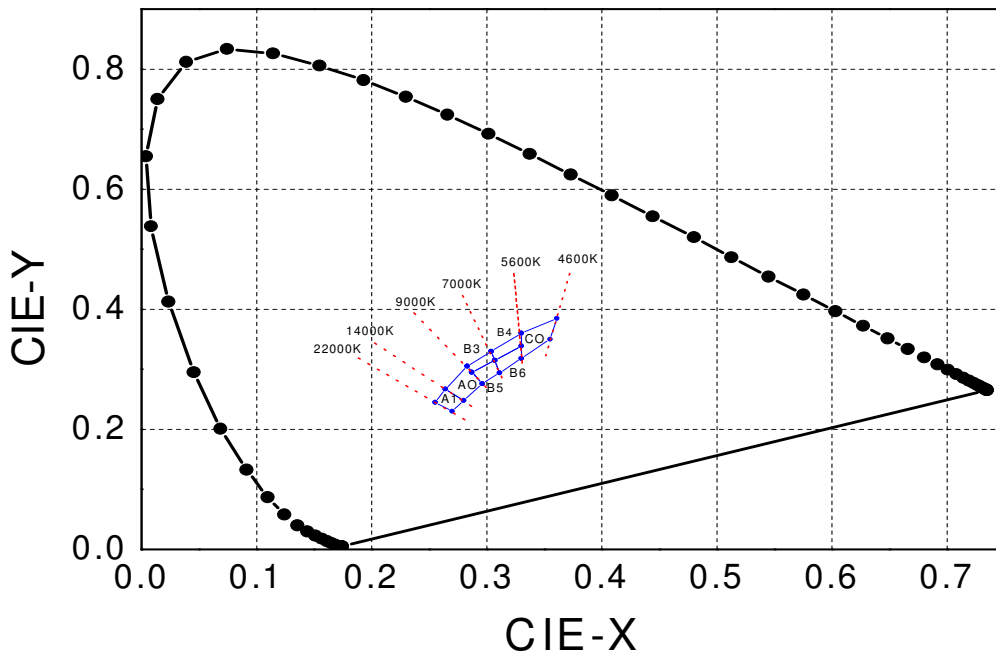
Bin Code	Min.	Max.	Unit	Condition
0	2.8	3.0	V	$I_F = 20\text{mA}$
1	3.0	3.2		
2	3.2	3.4		
3	3.4	3.6		

Note:
Measurement Uncertainty of Forward Voltage : $\pm 0.1\text{V}$

Color Combination (at 20mA)

Group	Bins
1	A1+A0+B3+B4+B5+B6+C0

CIE Chromaticity Diagram

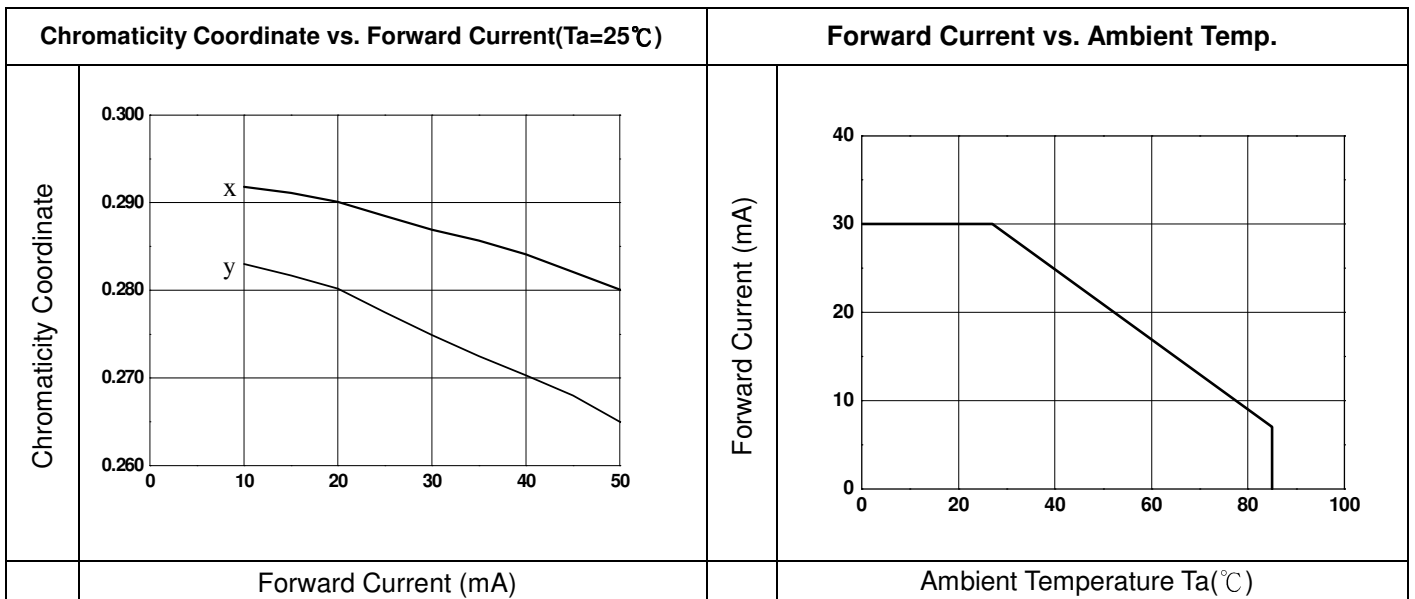
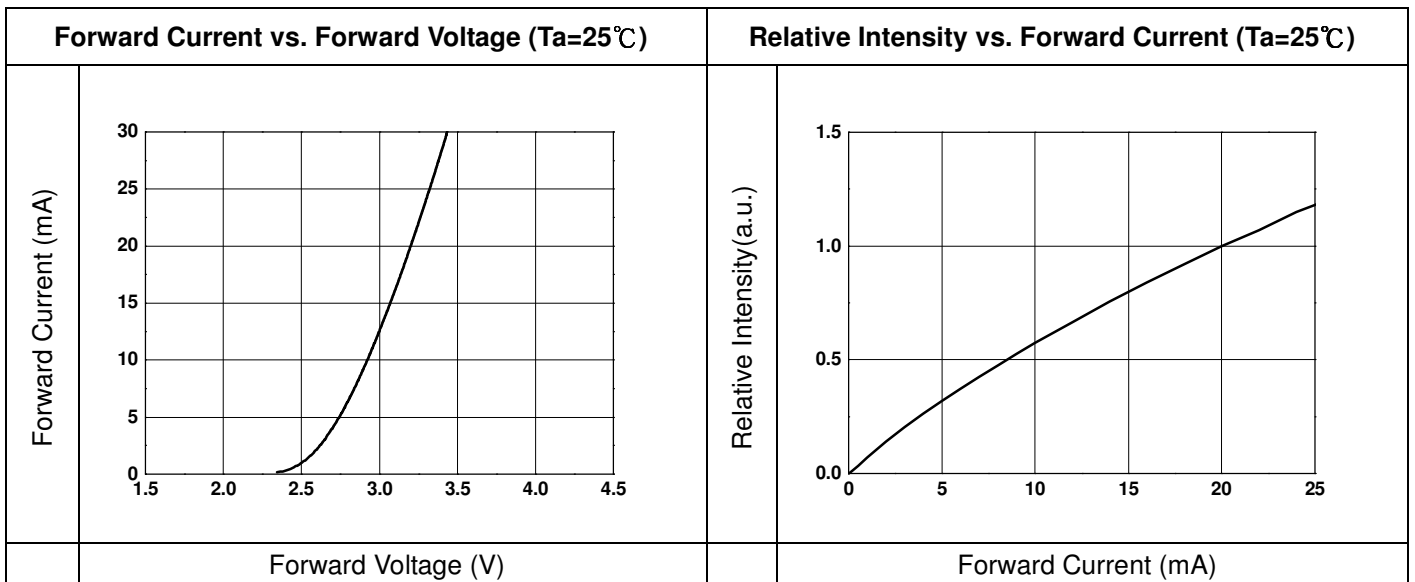
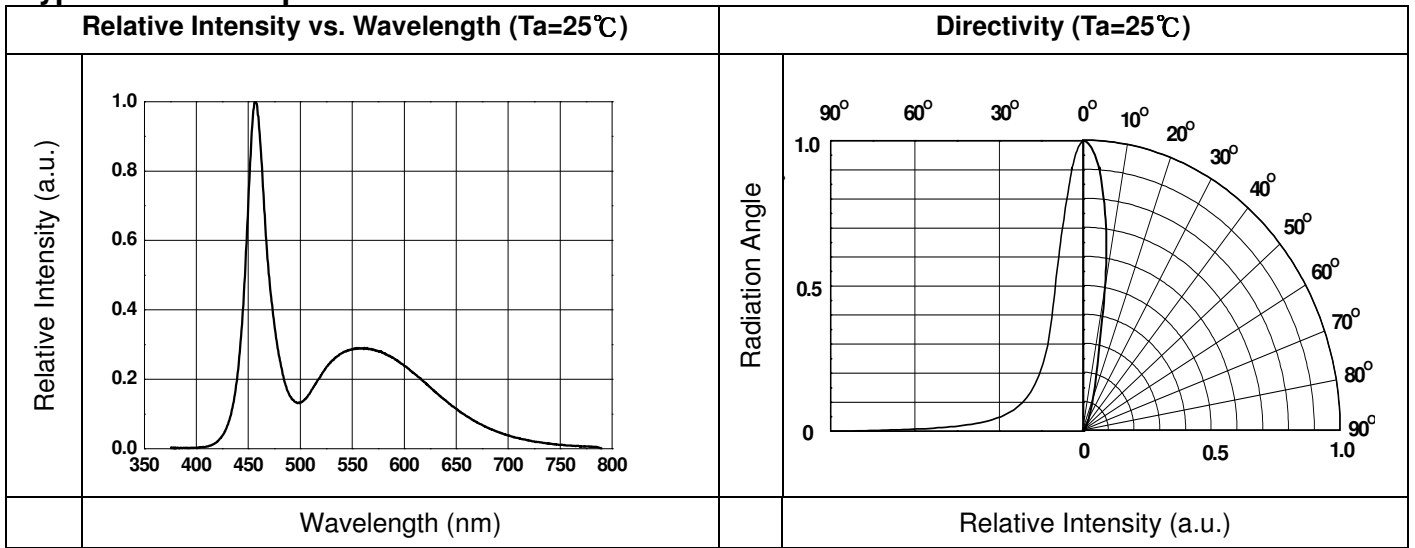


Color Ranks (IF=20mA , Ta=25°C)

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	0.267	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



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