

#### Features

- Popular T-1 3/4package.
- High efficiency.
- General purpose leads.
- Selected minimum intensities.
- Available on tape and reel.
- Pb free.
- ESD-withstand voltage: up to 4K V
- The product itself will remain within RoHS compliant version.

#### **Descriptions**

- The series is specially designed for applications requiring higher brightness.
- The LED lamps are available with different colors, intensities, epoxy colors, etc.

### Applications

- Status indicators.
- Commercial use.
- Advertising Signs.
- Back lighting.

#### **Device Selection Guide**

	С		
LED Part No.	Material	<b>Emitted Color</b>	Lens Color
7344-15UBGC/S400-A5	InGaN	Super Blue Green	Water clear

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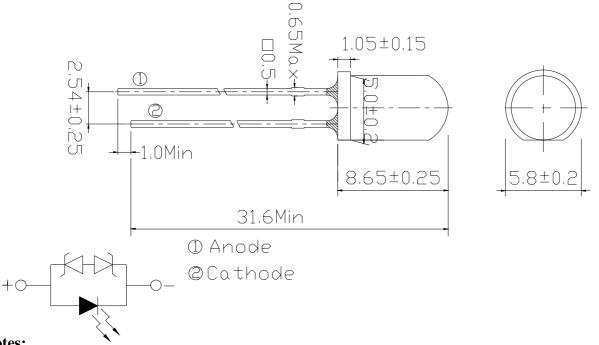
# 7344-15UBGC/S400-A5





### 7344-15UBGC/S400-A5

### **Package Dimensions**



#### Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

### Absolute Maximum Rating $(T_a=25^{\circ}C)$

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Current	$I_{\rm F}$	25	mA
Pulse Forward Current (Duty1/10@ 1KHz)	$I_{\mathrm{FP}}$	100	mA
Operating Temperature	T <sub>opr</sub>	-40 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Electrostatic Discharge	ESD	4K	V
Soldering Temperature	$T_{sol}$	260 ±5	°C
Power Dissipation	$P_d$	110	mW
Reverse Voltage	VR	5	V
Zener Reverse Current	Iz	100	mA
Notes: Soldering time $\leq$ 5 second	nds.		

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### Electro-Optical Characteristics ( $T_a=25^{\circ}C$ )

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Radiometric Intensity	$I_V$	2250	3600		mcd	
Viewing Angle	$2\theta_{1/2}$		30		deg	
Peak Wavelength	λp		502		nm V	I <sub>F</sub> =20mA
Dominant Wavelength	$\lambda_d$		505			
Spectrum Half width	Δλ		35			
Forward Voltage	$V_{\rm F}$		3.5	4.3		
Reverse Current	I <sub>R</sub>			50	$\mu$ A	V <sub>R</sub> =5V
Zener Reverse Voltage	Vz	5.8			V	Iz=5mA

### **Rank Combination (I<sub>F</sub>=20mA)**

Rank	Ν	Р	Q	R		
Luminous Intensity	2250~2850	2850~3600	3600~4500	4500~5650		
*Measurement Uncertainty	*Measurement Uncertainty of Luminous Intensity: ±15% Unit:mcd					
Rank	Q		R	S	Т	
Forward Voltage	2.7~2.9	2	2.9~3.1	3.1~3.3	3.3~3.5	
Rank	U		V	W	Х	
Forward Voltage	3.5~3.7		3.7~3.9	3.9~4.1	4.1~4.3	
*Measurement Uncertainty of Forward Voltage: ±0.1V Unit:						
Rank	2		3	4	5	
Dominant Wavelength	498~503	3 5	03~508	508~51	3 513~518	
*Measurement Uncertainty of Dominant Wavelength ±1.0nm					Unit:nm	

\*Measurement Uncertainty of Dominant Wavelength ±1.0nm

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Relative luminous intensity (%)

Relative luminous intensity (%)

Forward Current I<sub>F</sub>(mA)

# **Technical Data Sheet**

#### Spectrum Distribution Ta=25° Ta=25\* 100 50 Forward Current I<sub>F</sub>(mA) 40 75 30 50 20 25 10 0 0 3.0 3.4 3.8 4.2 4.6 2.8 450 500 550 600 400 Forward Voltage $V_{\rm F}$ (V) Wavelength $\lambda p(nm)$ Luminous Intensity vs Luminous Intensity vs. Relative luminous intensity (%) Forward Current Ambient Temperature Ta=25° 1000 1000 f=1KHz Duty=1/10 ¦₽ 100 100 10 10 1 1 10 10 10 -20 0 20 10 40 60 80 100 -40 Ambient temperature Ta (°c) Forward current I<sub>F</sub>(mA) Forward Current Derating Curve Radiation Diagram Ta=25° 20° 0° 10\* 50 30° 40 40° 30 1.0 25 0. 9 50° 20 0.8 60° 70° 10 0.7 80°

### **Typical Electro-Optical Characteristics Curves**

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0

20

40

Ambient Temperature

60

85 100

 $T_{\alpha}(^{\circ}C)$ 

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0.4 0.6

0. 2

0.1

0.5 0.3 9**0**°

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Forward Voltage



### 7344-15UBGC/S400-A5

### **Packing Quantity Specification**

1.500 PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

#### **Label Form Specification**



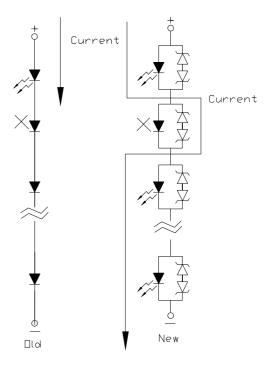
CPN: Customer's Production Number P/N : Production Number QTY: Packing Quantity CAT: Ranks of Luminous and Forward Voltage HUE: Ranks of Dominant Wavelength REF: Reference LOT No: Lot Number MADE IN TAIWAN: Production Place

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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.
- 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



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