

Technical Data Sheet

7344/V7C2-ASVA/MS

Features

- Popular T-1 3/4 round package.
- Choice of various viewing angles.
- Available on tape and reel.
- Reliable and robust.
- UV resistant epoxy
- 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

- Color Graphic Signs
- Message boards
- Variable message signs (VMS)
- Commercial outdoor advertising

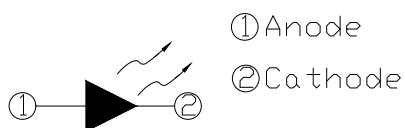
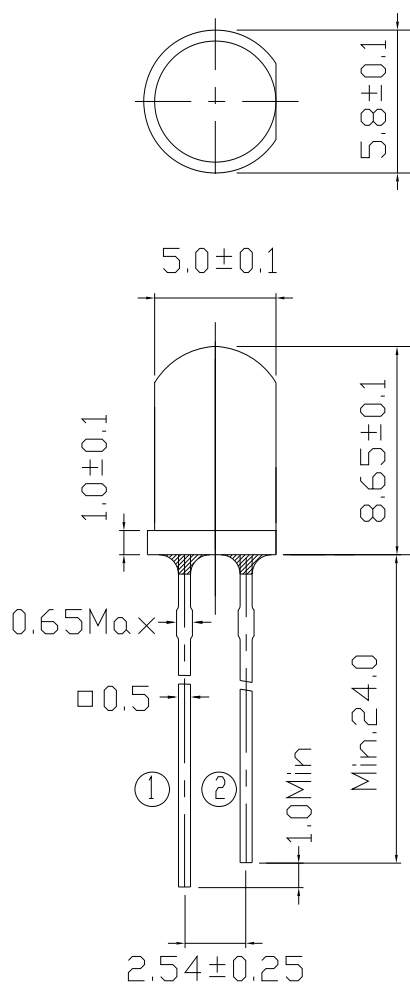
Device Selection Guide

Chip		Lens Color
Material	Emitted Color	
InGaN	Bluish Green	Water Clear

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Package Dimensions



Notes:

- All dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.

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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units
Forward Current	I _F	30	mA
Pulse Forward Current ^{*1}	I _{FP}	100	mA
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Electrostatic Discharge	ESD	1K	V
Soldering Temperature ^{*2}	T _{sol}	260	°C
Power Dissipation	P _d	120	mW
Reverse Voltage	V _R	5	V

Notes: *1:I_{FP} Conditions--Pulse Width ≤ 10msec and Duty ≤ 1/10.

*2:Soldering time ≤ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Forward Voltage	V _F	I _F =20mA	2.8	3.2	3.6	V
Luminous Intensity	I _V	I _F =20mA	5650	9000	14250	mcd
Viewing Angle	2 θ 1/2	I _F =20mA	--	23	--	deg
Peak Wavelength	λ _p	I _F =20mA	--	502	--	nm
Dominant Wavelength	λ _d	I _F =20mA	498	505	513	nm
Spectrum Radiation Bandwidth	Δ λ	I _F =20mA	--	30	--	nm
Reverse Current	I _R	V _R =5V	--	--	50	μ A

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Rank Combination ($I_F=20\text{mA}$)

Rank	S	T	U	V
Luminous Intensity	5650~7150	7150~9000	9000~11250	11250~14250

*Measurement Uncertainty of Luminous Intensity: $\pm 10\%$

Unit: :mcd

Rank	0	1	2	3
Forward Voltage	2.8~3.0	3.0~3.2	3.2~3.4	3.4~3.6

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

Unit:V

Rank	2	3	4
Dominant Wavelength	498~503	503~508	508~513

*Measurement Uncertainty of Dominant Wavelength $\pm 1.0\text{nm}$

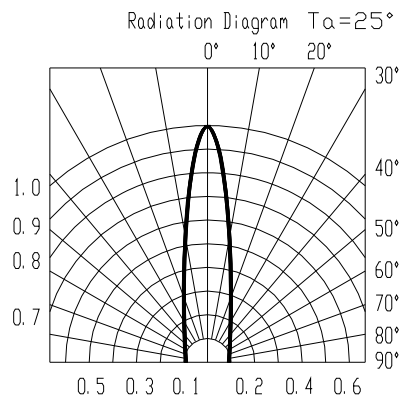
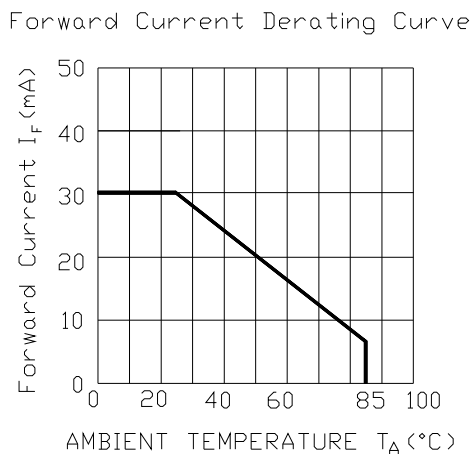
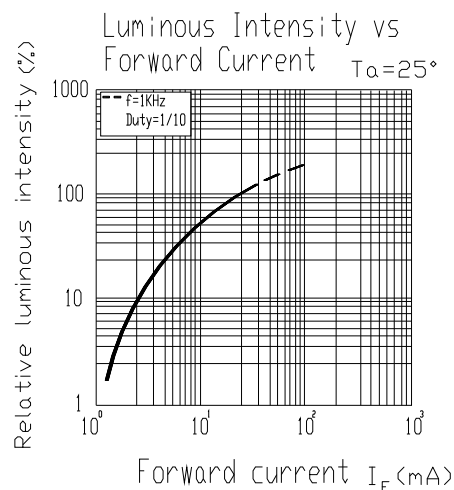
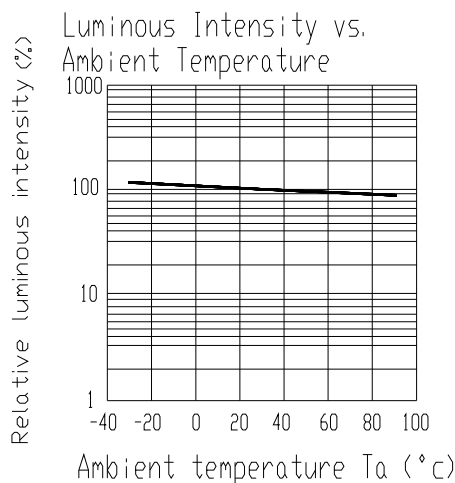
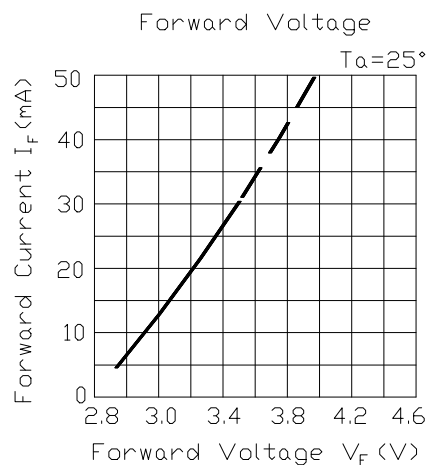
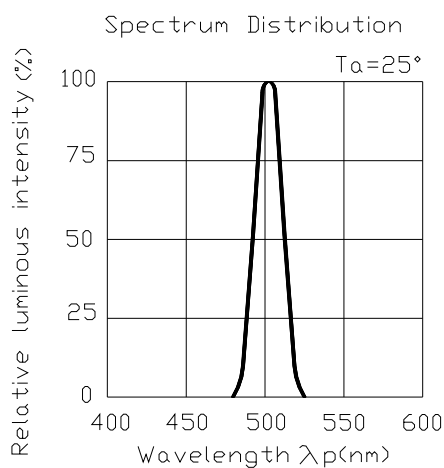
Unit:nm

*The quantity ratio of the ranks is decided by EVERLIGHT.

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Typical Electro-Optical Characteristics Curves

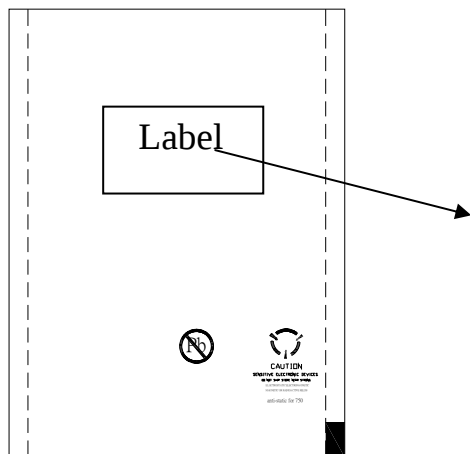


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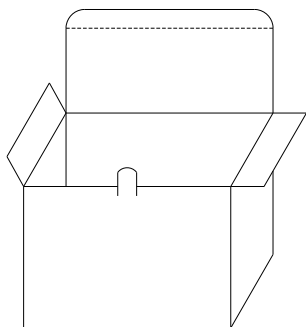
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Packing Specification

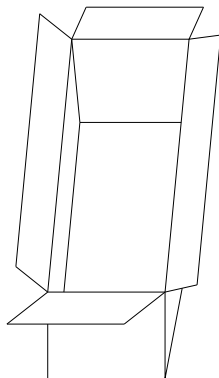
■ Anti-electrostatic bag



■ Inner Carton



■ Outside Carton



		EVERLIGHT	
CPN : P/N : XXXXXXXXXXXX  XXXXXXXXXXXX			
QTY : XXX  LOT NO : XXXXXXXXXXXX  Reference : XXXXXXXXXXXX 		RoHS CAT : XX HUE : XX REF : XX	
MADE IN TAIWAN			

■ Label Form Specification

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks of Luminous Intensity and Forward Voltage

HUE: Rank of Dominant Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

■ Packing Quantity

1. 500 PCS/1 Bag, 5 Bags/1 Inner Carton

2. 10 Inner Cartons/1 Outside Carton

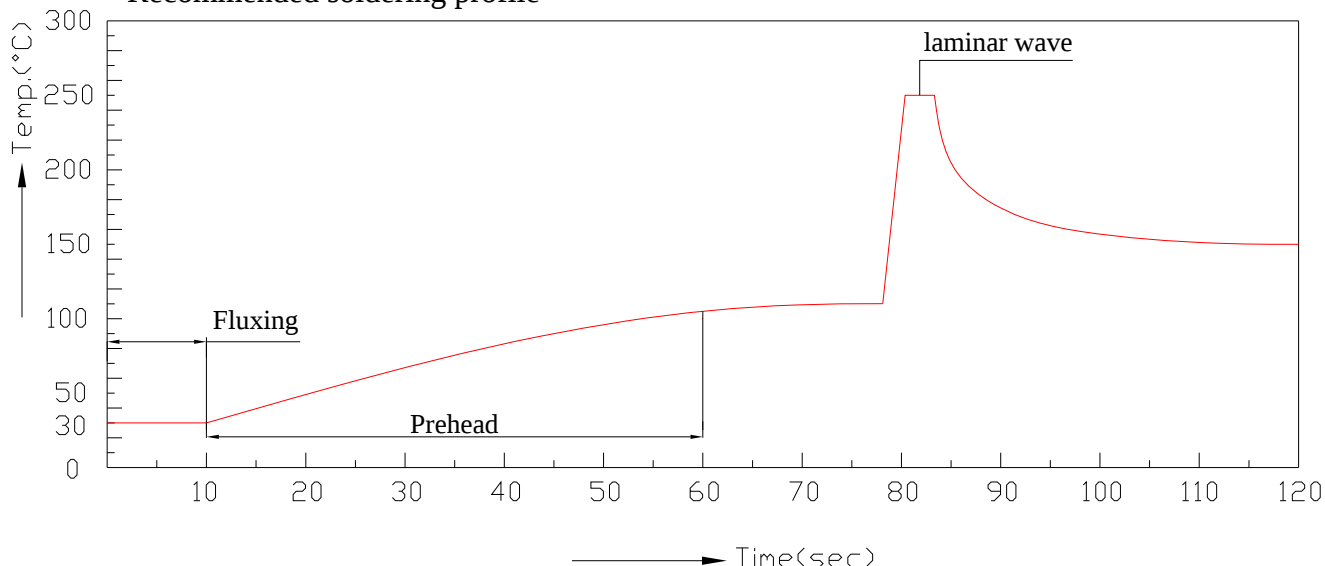
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■ Recommended soldering conditions:

Hand Soldering		DIP Soldering	
Temp. at tip of iron	300°C Max. (30W Max.)	Preheat temp.	100°C Max. (60 sec Max.)
Soldering time	3 sec Max.	Bath temp. & time	260 Max., 5 sec Max
Distance	3mm Min.(From solder joint to epoxy bulb)	Distance	3mm Min. (From solder joint to epoxy bulb)

■ Recommended soldering profile



- Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly when soldering.
- Dip and hand soldering should not be done more than one time
- After soldering the LEDs, the epoxy bulb should be protected from mechanical shock or vibration until the LEDs return to room temperature.
- A rapid-rate process is not recommended for cooling the LEDs down from the peak temperature.

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- Although the recommended soldering conditions are specified in the above table, dip or handsoldering at the lowest possible temperature is desirable for the LEDs.
- Wave soldering parameter must be set and maintain according to recommended temperature and dwell time in the solder wave.

4. Cleaning

- When necessary, cleaning should occur only with isopropyl alcohol at room temperature for a duration of no more than one minute. Dry at room temperature before use.
- Do not clean the LEDs by the ultrasonic. When it is absolutely necessary, the influence of ultrasonic cleaning on the LEDs depends on factors such as ultrasonic power and the assembled condition. Ultrasonic cleaning shall be pre-qualified to ensure this will not cause damage to the LED

5. Heat Management

- Heat management of LEDs must be taken into consideration during the design stage of LED application. The current should be de-rated appropriately by referring to the de-rating curve found in each product specification.
- The temperature surrounding the LED in the application should be controlled. Please refer to the data sheet de-rating curve.

6. ESD (Electrostatic Discharge)

- Electrostatic discharge (ESD) or surge current (EOS) can damage LEDs.
- An ESD wrist strap, ESD shoe strap or antistatic gloves must be worn whenever handling LEDs.
- All devices, equipment and machinery must be properly grounded.
- Use ion blower to neutralize the static charge which might have built up on surface of the LEDs plastic lens as a result of friction between LEDs during storage and handing.

7. Other

- Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.



EVERLIGHT ELECTRONICS CO.,LTD.

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- 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.
- 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.

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