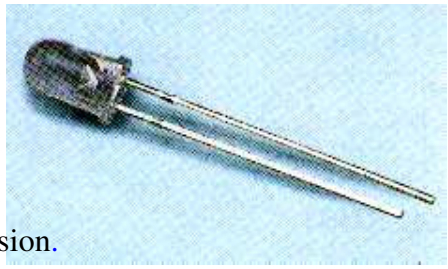
Technical Data Sheet

7343/G1C2-ASVA/MS

Features



- Popular T-1 3/4 diameter package.
- Choice of various viewing angles.
- Available on tape and reel.
- Reliable and robust.
- 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.
- Superior performance in outdoor environment

Applications

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

Device Selection Guide

LED Part No.	Chip Material	Emitted Color	Lens Color	Stopper
7343/G1C2-ASVA/MS	InGaN	Brilliant Green	Water Clear	No
7343/G1C2-ASVA/P/MS	InGaN	Brilliant Green	Water Clear	Yes

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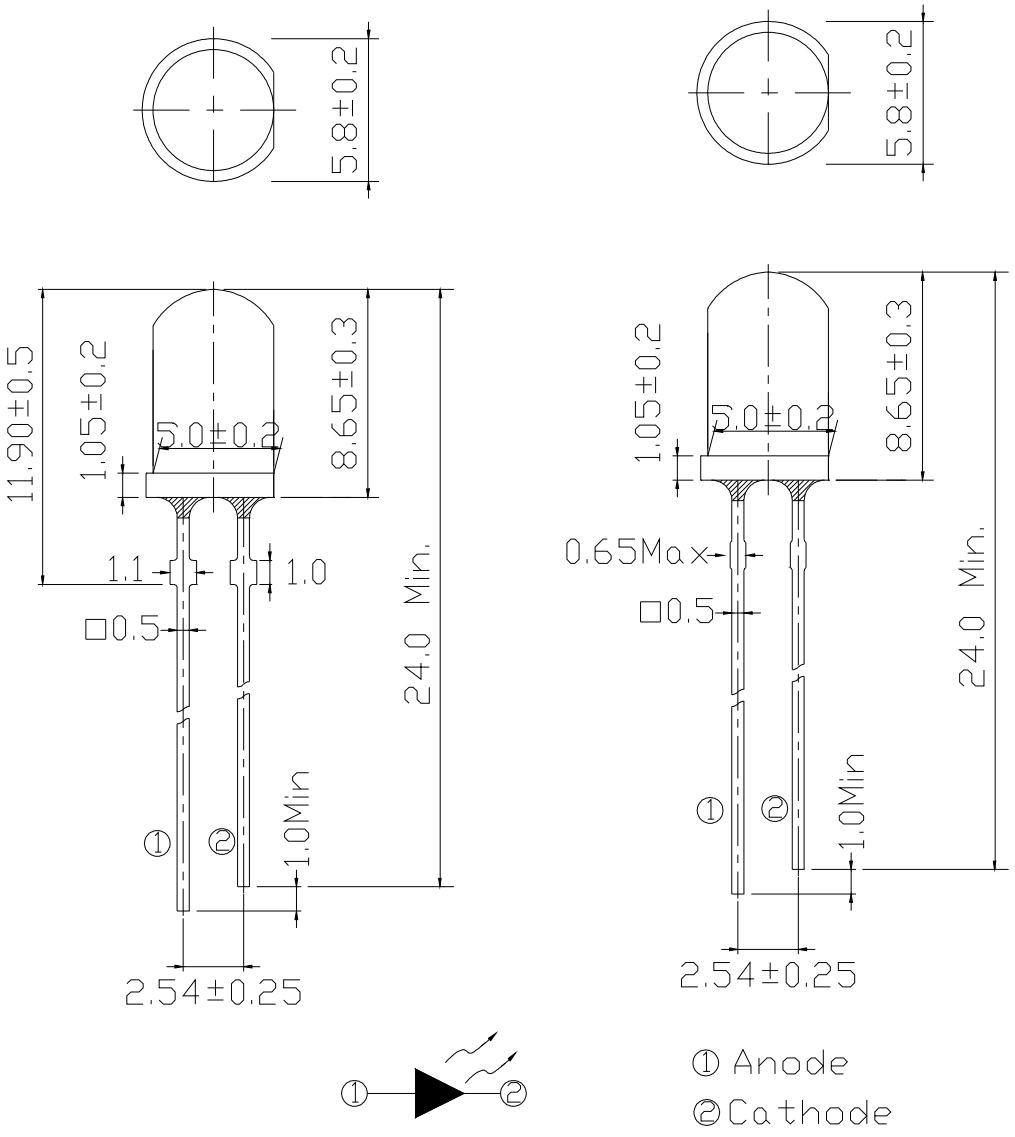
Package Dimensions

No Stopper type **Stopper type**



Notes:

- All dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Lead spacing is measured where the lead emerges from the package.
- Protruded resin under flange is 1.5mm Max LED.

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Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Units
Forward Current	I_F	30	mA
Pulse Forward Current*1	I_{FP}	100	mA
Operating Temperature	T_{opr}	-40 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
Electrostatic Discharge	ESD	1K	V
Soldering Temperature*2	T_{sol}	260 ±5	℃
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℃)

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	2θ 1/2	I_F=20mA	--	25	--	deg
Peak Wavelength	λ p	I_F=20mA	--	518	--	nm
Dominant Wavelength	λ d	I_F=20mA	520	525	532	nm
Spectrum Radiation Bandwidth	$\Delta\lambda$	I_F=20mA	--	35	--	nm
Reverse Current	I_R	V_R=5V	--	--	50	μA

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Rank Combination (I_F=20mA)

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

*Measurement Uncertainty of Luminous Intensity: ±15% 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: ±0.1V Unit:V

Rank	1	2
Dominant Wavelength	525~530	530~535

*Measurement Uncertainty of Dominant Wavelength ±1.0nm Unit:nm

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

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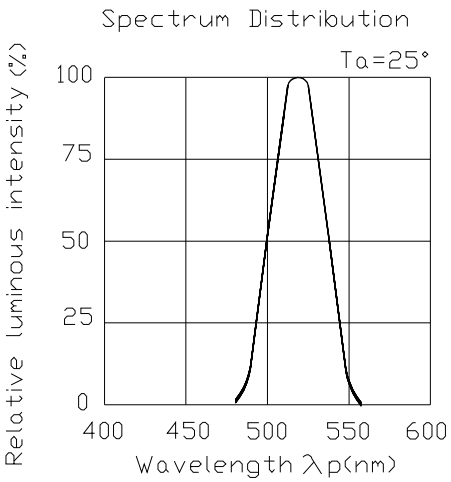
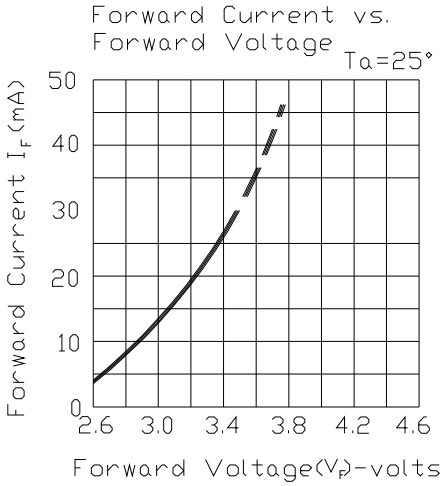
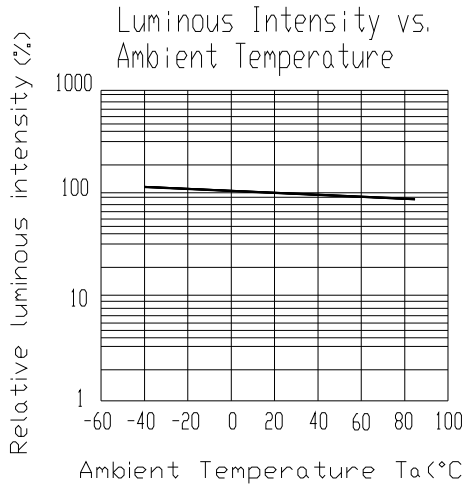
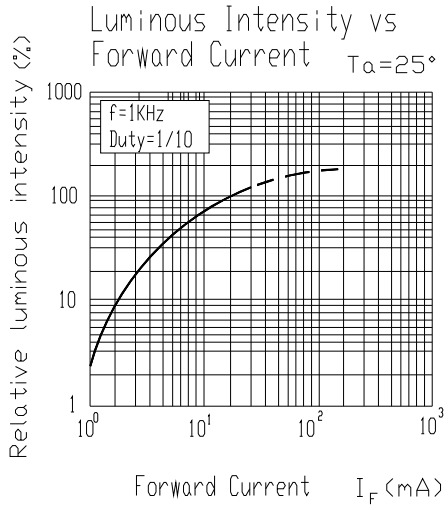
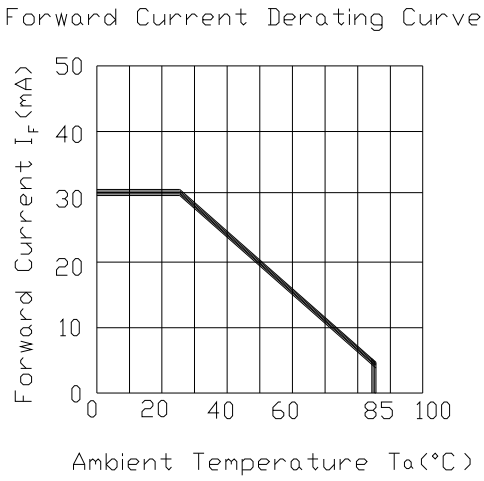
Typical Electro-Optical Characteristics Curves

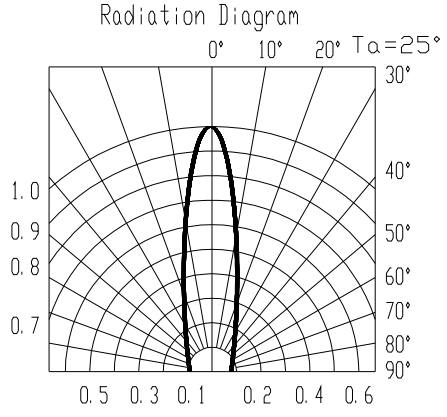












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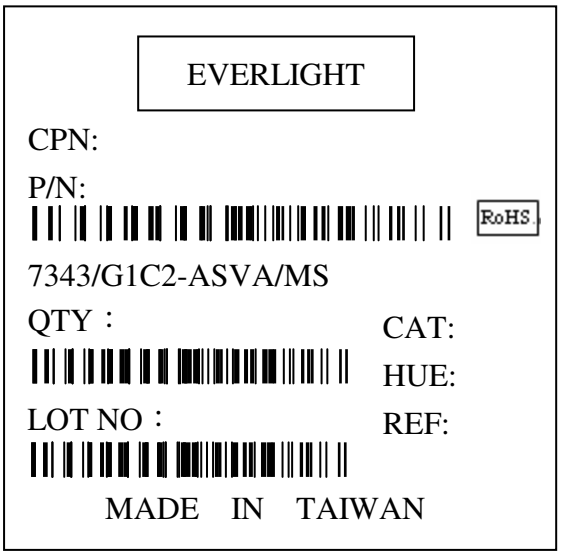
Packing Quantity Specification

1.500PCS/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 Intensity 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. Soldering Condition

Careful attention should be paid during soldering. When soldering, leave more then 3mm from solder joint to case, and soldering beyond the base of the tie bar is recommended.

Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly when soldering.

Recommended soldering conditions:

Hand Soldering		DIP Soldering	
Temp. at tip of iron	400℃ Max. (30W Max.)	Preheat temp.	100℃ Max. (60 sec Max.)
Soldering time	3 sec Max.	Bath temp.	265 Max.
Distance	3mm Min.(From solder joint to case)	Bath time.	5 sec Max.
		Distance	3mm Min.

EVERLIGHT ELECTRONICS CO., LTD.
Office: No 25, Lane 76, Sec 3, Chung Yang Rd,
Tucheng, Taipei 236, Taiwan, R.O.C
Tel: 886-2-2267-2000, 2267-9936
Fax: 886-2267-6244, 2267-6189, 2267-6306
http:\\www.everlight.com