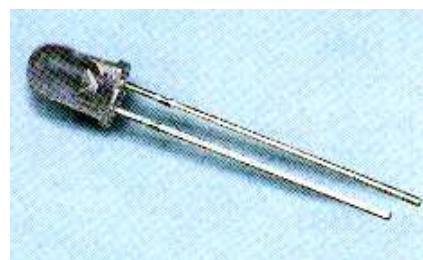


Technical Data Sheet

7343/B1C2-APSA/X/MS

Features

- Popular T-1 3/4 package.
- High efficiency.
- General purpose leads.
- Selected minimum intensities.
- Available on tape and reel.
- The product itself will remain within RoHS compliant version.
- UV resistant epoxy



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

LED Part No.	Chip		Lens Color	Stopper
	Material	Emitted Color		
7343/B1C2-APSB/MS	InGaN	Blue	Water clear	No
7343/B1C21-APSB/P/MS				Yes

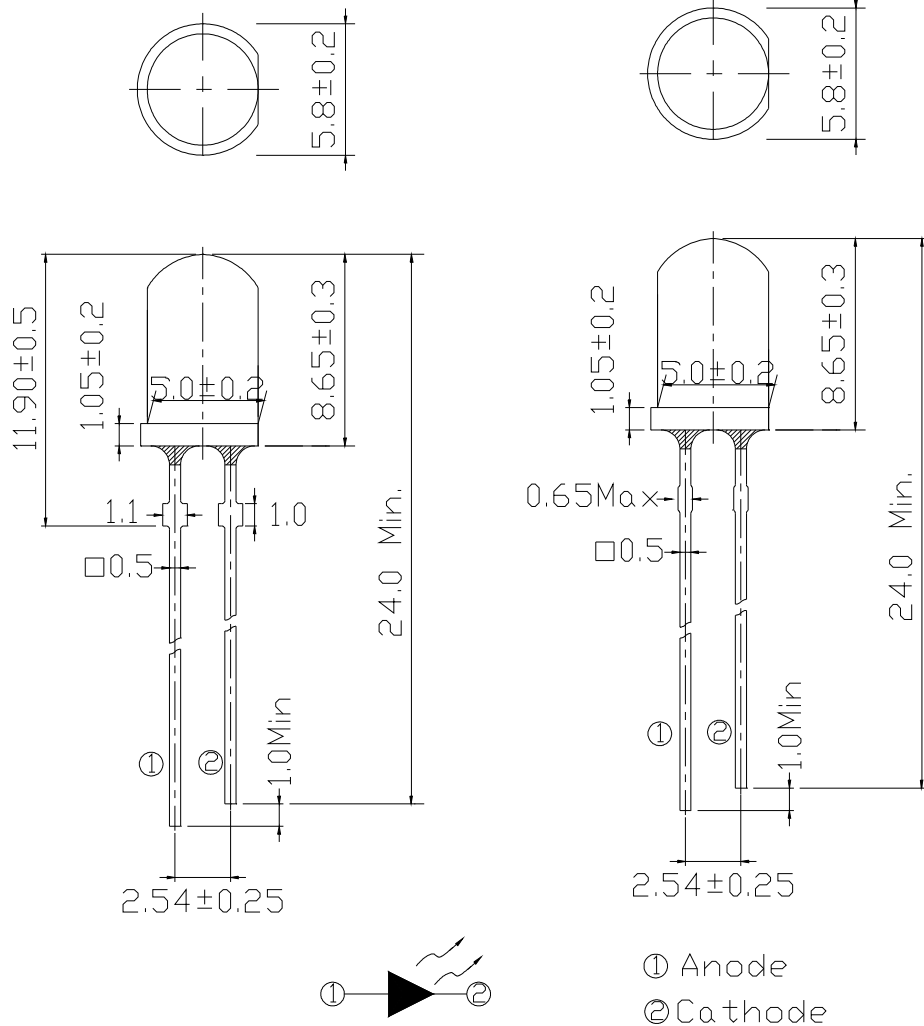
Technical Data Sheet

7343/B1C2-APSA/X/MS

Package Dimensions

Stopper Type

No Stopper Type



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.



Technical Data Sheet

7343/B1C2-APSA/X/MS

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

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	30	mA
Pulse Forward Current (Duty 1/10@ 1KHz)	I_{FP}	100	mA
Operating Temperature	T_{opr}	-40 ~ +85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40 ~ +100	$^{\circ}\text{C}$
Reverse Voltage	V_R	5	V
Electrostatic Discharge	ESD	1K	V
Soldering Temperature	T_{sol}	260 $\pm$ 5	$^{\circ}\text{C}$
Power Dissipation	P_d	110	mW

Notes: Soldering time $\leq$ 5 seconds.

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Radiometric Intensity	I _v	2850	4500	7150	mcd	I _F =20mA
Viewing Angle	2 θ _{1/2}	----	15	----	deg	
Peak Wavelength	λ _p	----	468	----	nm	
Dominant Wavelength	λ _d	465	470	475		
Spectrum Half width	Δ λ	----	35	----		
Forward Voltage	V _F	2.8	3.2	3.6	V	
Reverse Current	I _R	----	----	50	uA	V _R =5V



Technical Data Sheet

7343/B1C2-APSA/X/MS

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

Rank	P	Q	R	S
Luminous Intensity	2850~3600	3600~4500	4500~5650	5650~7150

*Measurement Uncertainty of Luminous Intensity: $\pm 15\%$

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: $\pm 0.1\text{V}$

Unit:V

Rank	1	2
Dominant Wavelength	465~470	470~475

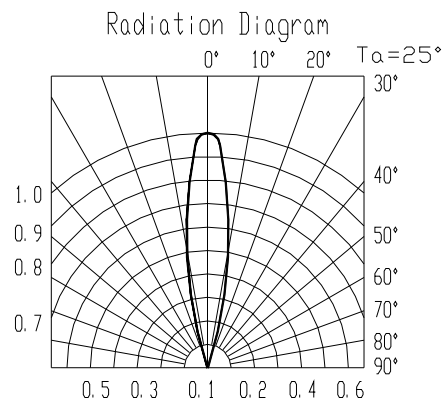
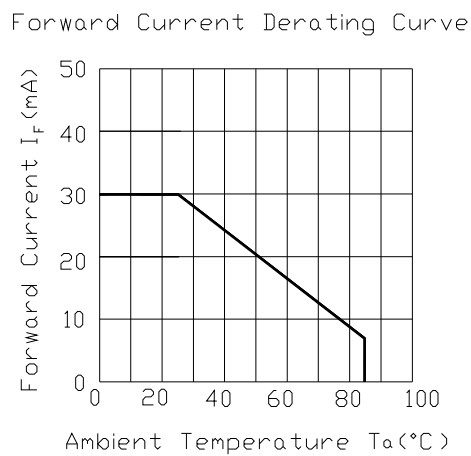
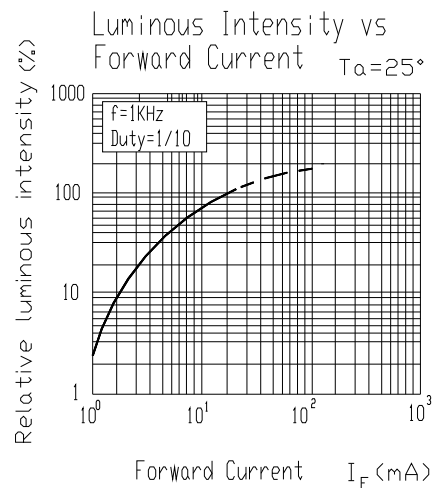
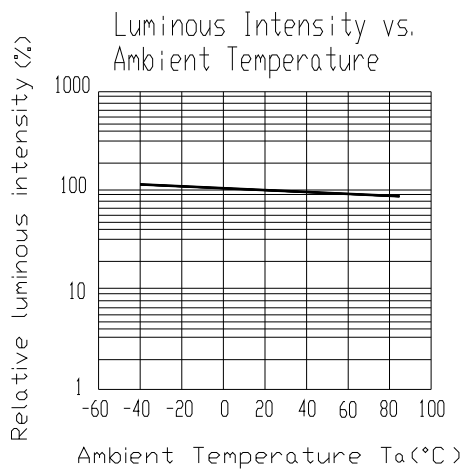
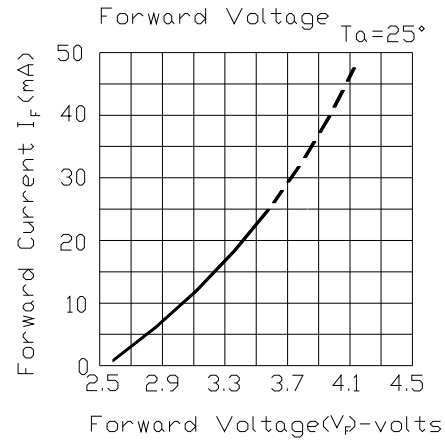
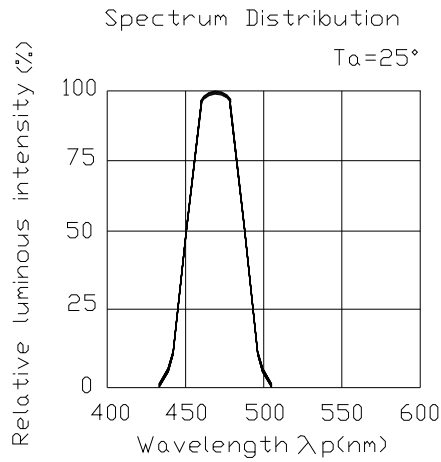
*Measurement Uncertainty of Dominant Wavelength $\pm 1.0\text{nm}$

Unit:nm

Technical Data Sheet

7343/B1C2-APSA/X/MS

Typical Electro-Optical Characteristics Curves





Technical Data Sheet

7343/B1C2-APSA/X/MS

Packing Quantity Specification

1.500PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT	
CPN:	
P/N:	 RoHS
7343/B1C2-APSA/X/MS	
QTY :	CAT:
	HUE:
LOT NO :	REF:
	
MADE IN TAIWAN	

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



Technical Data Sheet

7343/B1C2-APSA/X/MS

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 than 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°C Max. (30W Max.)	Preheat temp.	100°C 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>