

Features

- High luminous intensity output
- Oval Shape
- Well defined spatial radiation
- Wide viewing angle ($2\theta_{1/2}$) : $100^\circ / 50^\circ$
- UV resistant epoxy
- The product itself will remain within RoHS compliant version



Descriptions

- This precision optical performance oval LED is specifically designed for passenger information signs
- This lamp has matched radiation patterns with yellow, blue or green mixing color applications
- Superior performance in outdoor environment

Applications

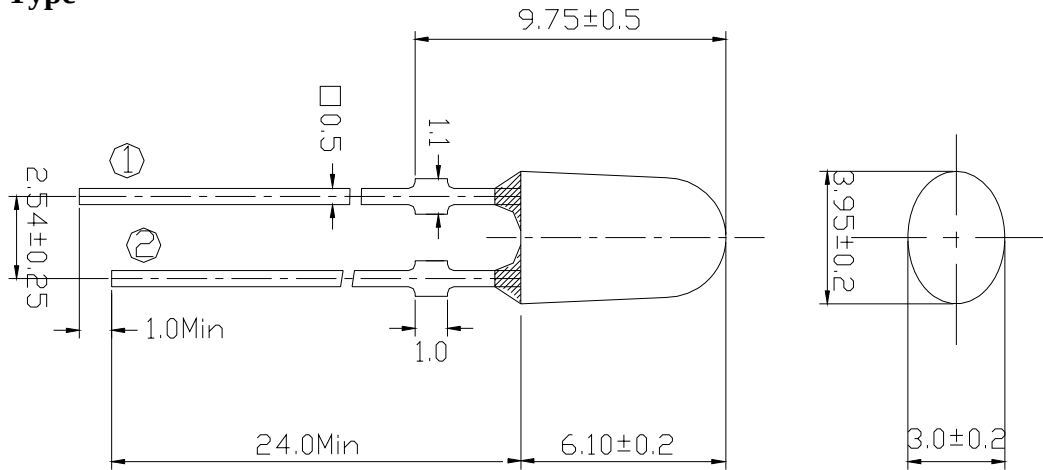
- Full color/video signs
- Message boards
- Variable message signs (VMS)
- Commercial outdoor advertising

Device Selection Guide

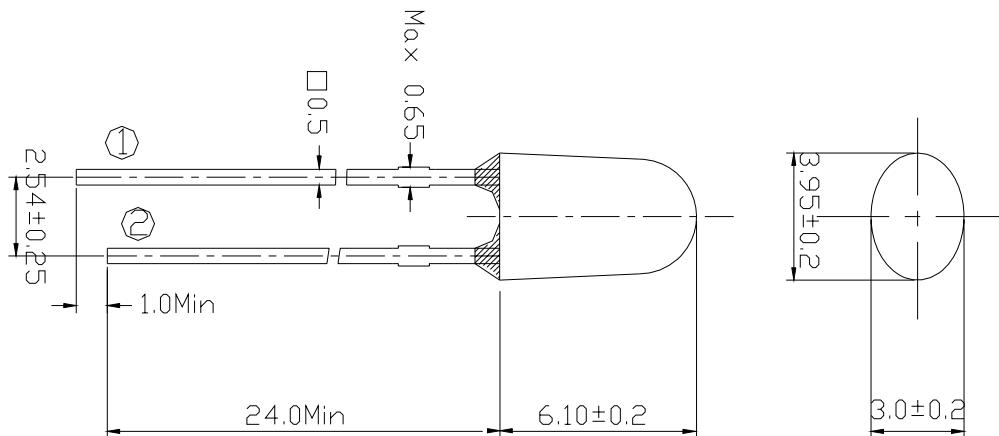
LED Part No.	Chip Material	Emitted Color	Lens Color	Stopper
3474/Y3DB-AGKB/MS	AlGaInP	Super Yellow	Yellow Diffused	No
3474/Y3DB-AGKB/P/MS				Yes

Package Dimensions

Stopper Type



No Stopper Type



① Anode

② Cathode



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

3474/Y3DB-AGKB/X/MS

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

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	50	mA
Pulse Forward Current (Duty1/10@ 1KHz)	I_{FP}	160	mA
Operating Temperature	T_{opr}	-40 ~ +85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40 ~ +100	$^{\circ}\text{C}$
Soldering Temperature	T_{sol}	260 $\pm$ 5	$^{\circ}\text{C}$
Power Dissipation	P_d	120	mW
Reverse Voltage	V_R	5	V
Zener Reverse Current	I_z	100	mA

Notes: Soldering time $\leq$ 5 seconds.

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _V	565	900	1425	mcd	I _F =20mA
Viewing Angle	2 θ _{1/2}	--	X:110Y::50	--	deg	
Peak Wavelength	λ _p	--	591	--	nm	
Dominant Wavelength	λ _d	--	589	--		
Spectrum Half width	Δ λ	--	15	--		
Forward Voltage	V _F	--	2.3	2.6	V	
Reverse Current	I _R	--	--	10	μ A	V _R =5V

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

Rank	G	H	J	K
Luminous Intensity	565~715	715~900	900~1125	1125~1425

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

Unit:mcd

Rank	2	3	4
Forward Voltage	2.0~2.2	2.2~2.4	2.4~2.6

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

Unit:V

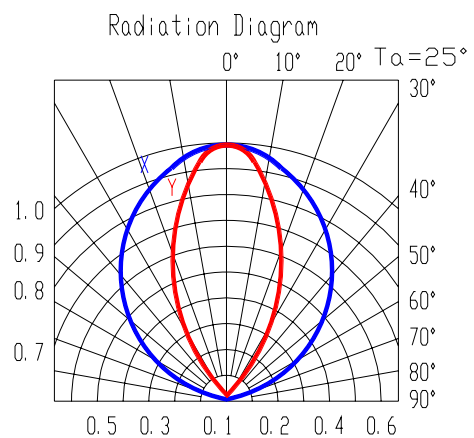
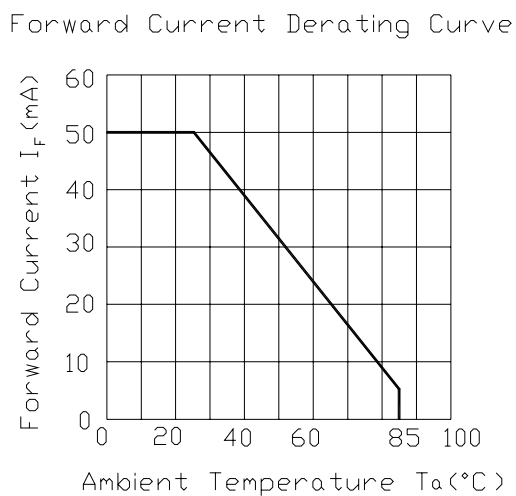
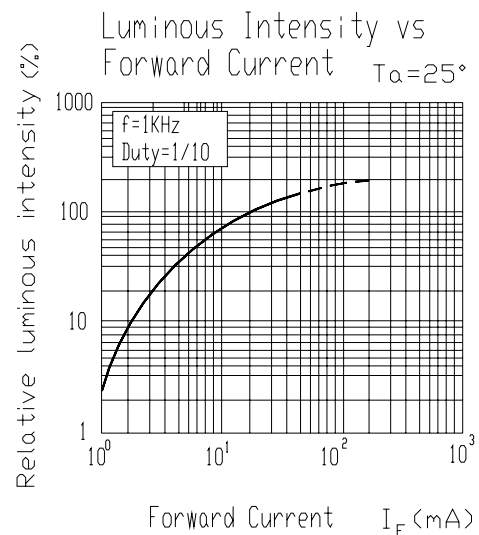
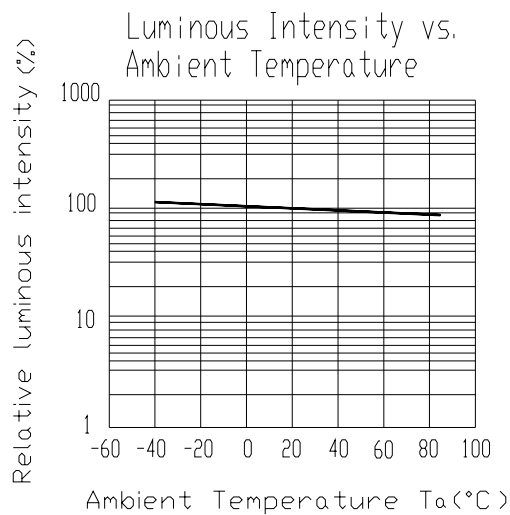
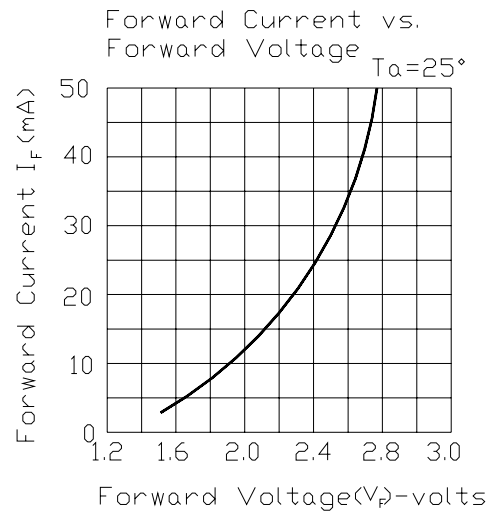
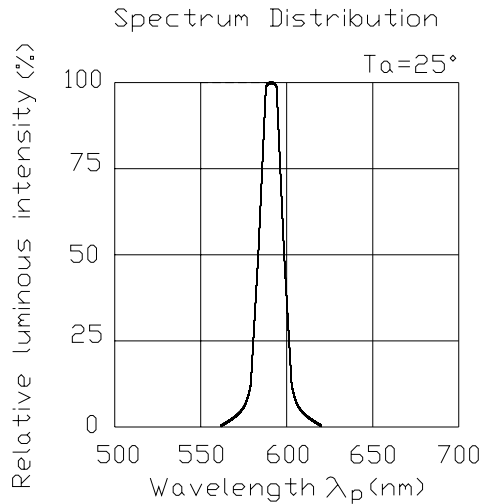
Rank	1	2	3	4
Dominant Wavelength	584~587	587~590	590~593	593~596

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

Unit:nm

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

Typical Electro-Optical Characteristics Curves





Technical Data Sheet

3474/Y3DB-AGKB/X/MS

Packing Quantity Specification

1.500PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT	
CPN:	
P/N:	
	
3474/Y3DB-AGKB/X/MS	
QTY :	CAT:
	
LOT NO :	HUE:
	
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

3474/Y3DB-AGKB/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.

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