

# Technical Data Sheet

## 5484/Y5DC-AJLB/X/MS

### Features

- High luminous intensity output
- Oval Shape
- Well defined spatial radiation
- Wide viewing angle ( $2\theta_{1/2}$ ) :  $100^\circ / 40^\circ$
- 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 red mixing dual color applications
- Superior performance in outdoor environment

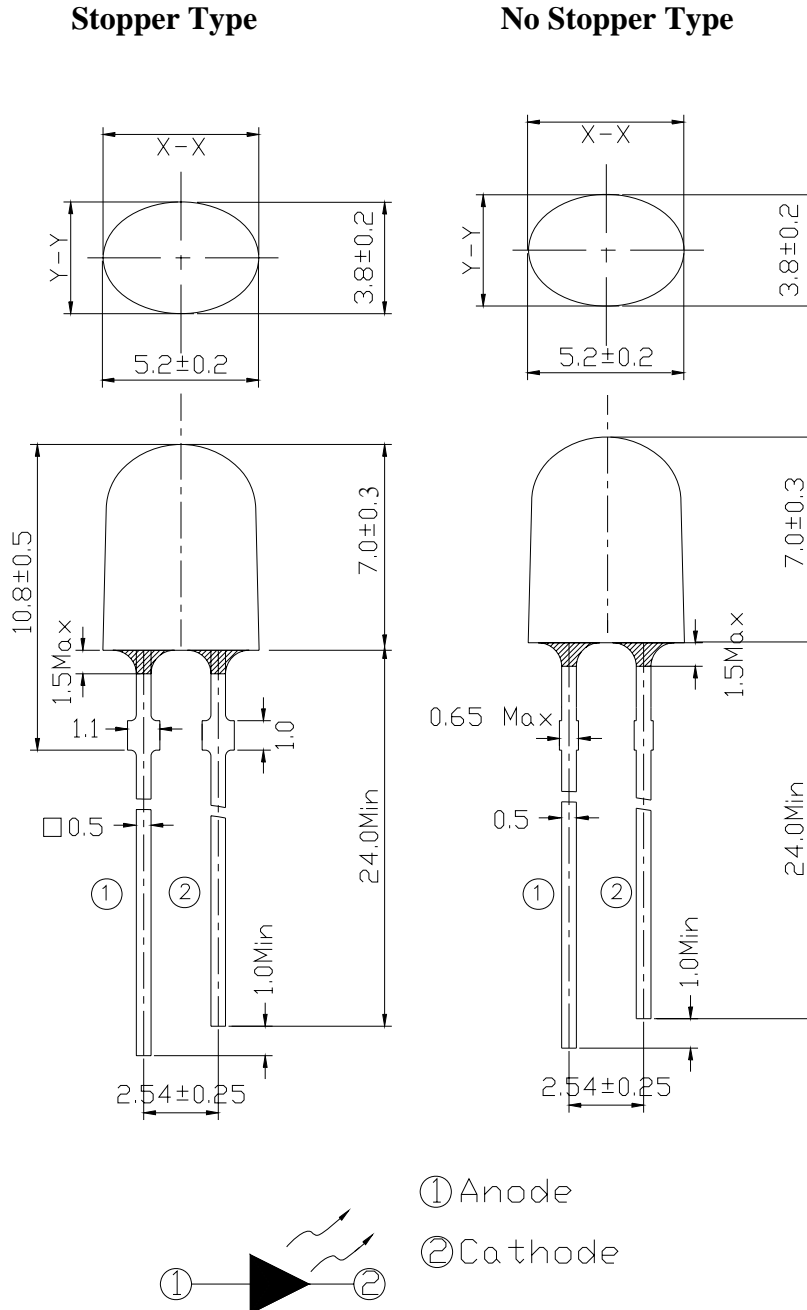
### Applications

- 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
5484/Y5DC-AJLB/MS	AlGaInP	Super Yellow	Yellow Diffused	No
5484/Y5DC-AJLB/P/MS				Yes

### 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.



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## 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)	$I_{FP}$	100	mA
Operating Temperature	$T_{opr}$	-40 ~ +85	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$	-40 ~ +100	$^{\circ}\text{C}$
Soldering Temperature(Notes *1)	$T_{sol}$	260 $\pm$ 5	$^{\circ}\text{C}$
Power Dissipation	$P_d$	120	mW
Reverse Voltage	$V_R$	5	V

Notes \*1: Soldering time  $\leq$  5 seconds.

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	$I_V$	900	1100	1800	mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$	--	X:100Y:40	--	deg	
Peak Wavelength	$\lambda_p$	--	591	--	nm	
Dominant Wavelength	$\lambda_d$	584	589	596		
Spectrum Half width	$\Delta\lambda$	--	15	--		
Forward Voltage	$V_F$	1.8	2.0	2.4	V	$V_R=5\text{V}$
Reverse Current	$I_R$	--	--	10	$\mu\text{A}$	

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

Rank	J	K	L
Luminous Intensity	900~1125	1125~1425	1425~1800

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

Unit:mcd

Rank	1	2	3
Forward Voltage	1.8~2.0	2.0~2.2	2.2~2.4

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

Unit:V

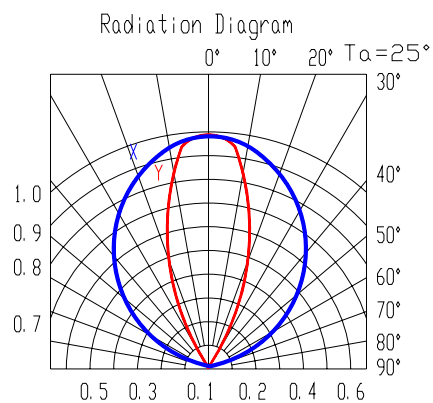
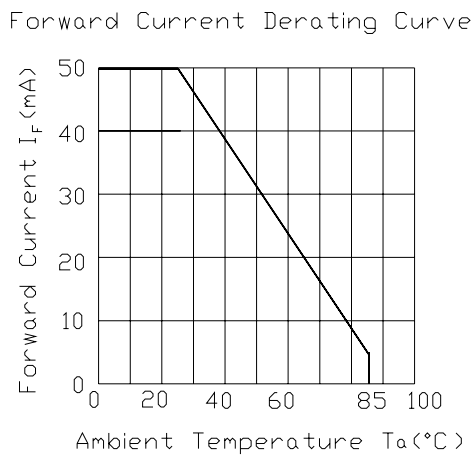
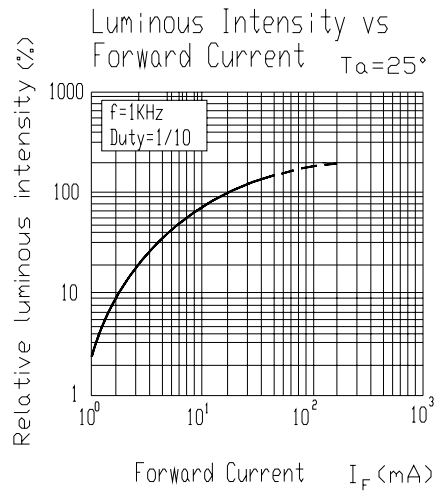
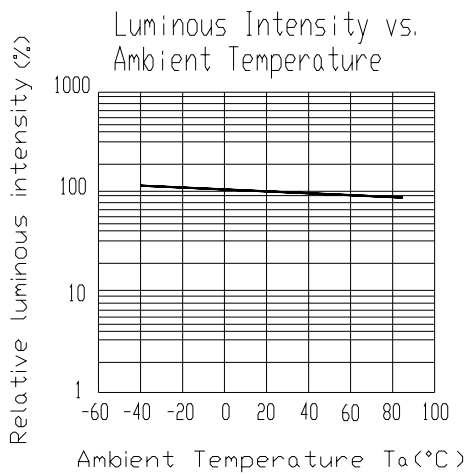
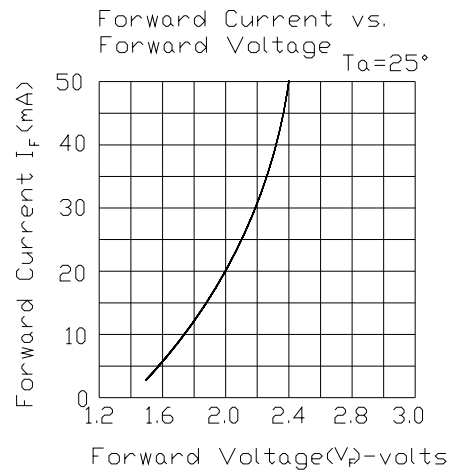
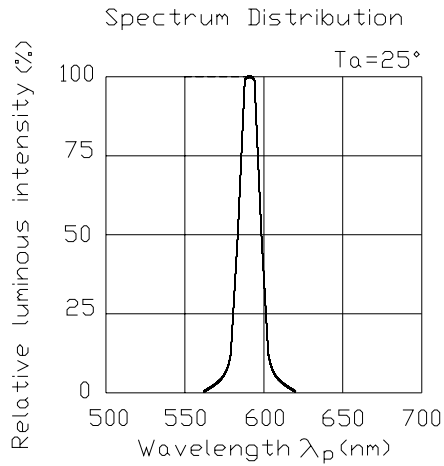
Rank	1	2	3	4
Dominant Wavelength	584~587	587~590	590~593	593~596

\*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




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## Packing Quantity Specification

1.500PCS/1Bag · 5Bags/1Box

2.10Boxes/1Carton

## Label Form Specification

<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">EVERLIGHT</div>	
CPN:	
P/N:	
	<div style="border: 1px solid black; padding: 2px; font-size: small;">RoHS</div>
5484/Y5DC-AJLB/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 Intensity and Forward Voltage

HUE: Ranks of Dominant Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place



# Technical Data Sheet

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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 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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