Technical Data Sheet

5484/GADC-AMPA/X/MS

Features

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

Applications

- Single or dual 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/GADC-AMPA/MS	InGaN	Super Green	Green Diffused	No
5484/GADC-AMPA/P/MS				Yes

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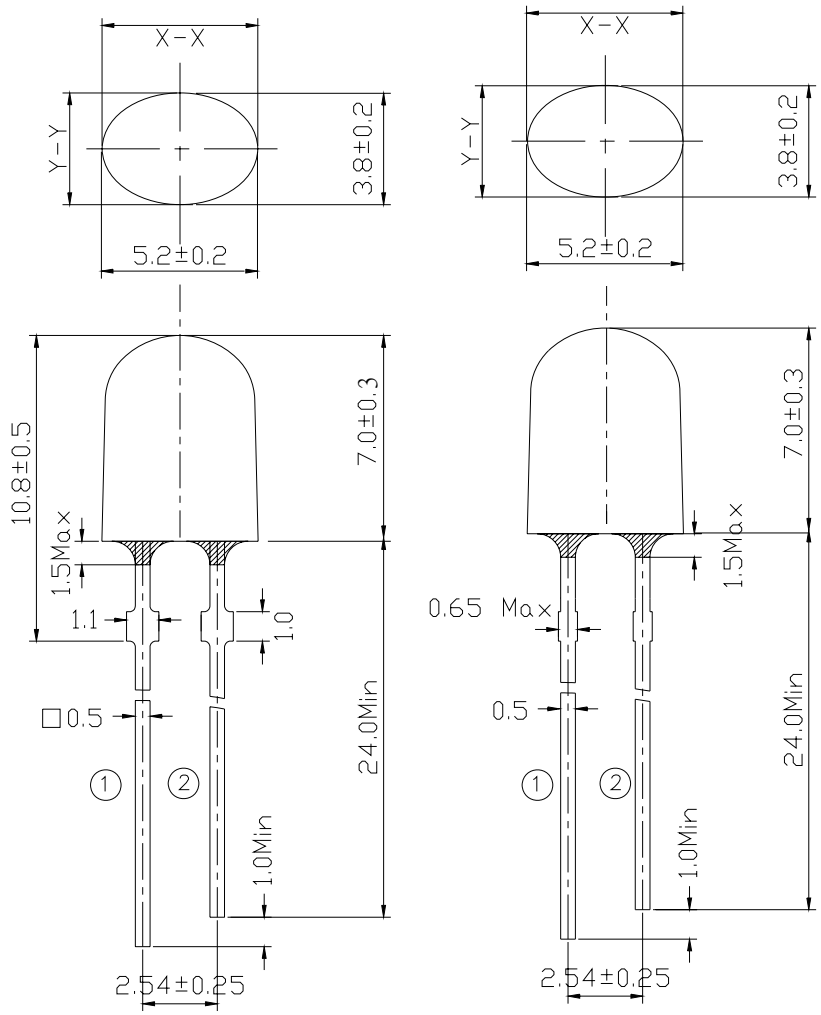
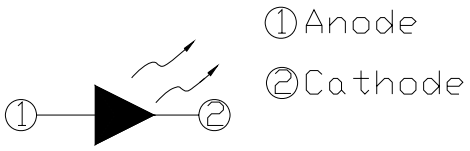
Package Dimensions

Stopper Type **No Stopper Type**





Notes:

- All 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℃)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	30	mA
Pulse Forward Current (Duty1/10@ 1KHz)	I_{FP}	100	mA
Operating Temperature	T_{opr}	-40 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
Soldering Temperature	T_{sol}	260 ±5	℃
Power Dissipation	P_d	100	mW
Reverse Voltage	V_R	5	V

Notes: Soldering time≦5 seconds.

Electro-Optical Characteristics (T_a=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I_V	1800	2250	3600	mcd	I_F=20mA
Viewing Angle	$2\theta_{1/2}$	--	X:100 Y:40	--	deg	
Peak Wavelength	λ_p	--	518	--	nm	
Dominant Wavelength	λ_d	525	530	535		
Spectrum Half width	$\Delta\lambda$	--	35	--		
Forward Voltage	V_F	2.8	3.4	3.6	V	
Reverse Current	I_R	--	--	50	μA	V_R=5V

Rank Combination (I_F=20mA)

Rank	M	N	P
Luminous Intensity	1800~2250	2250~2850	2850~3600

*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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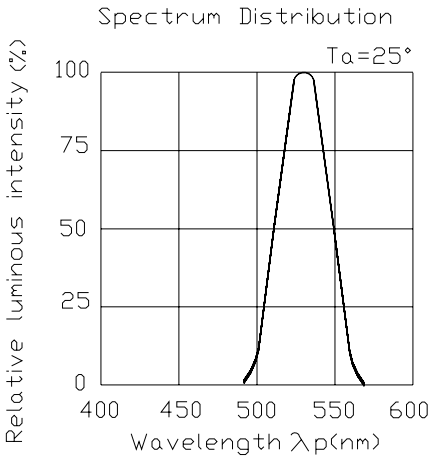
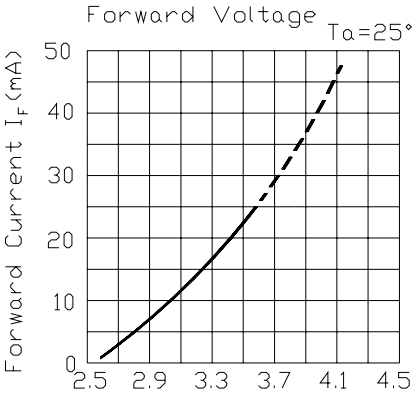
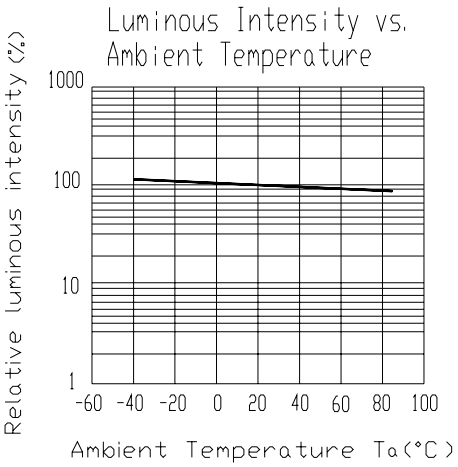
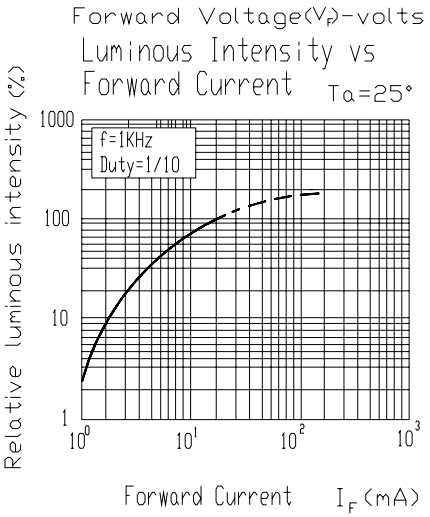
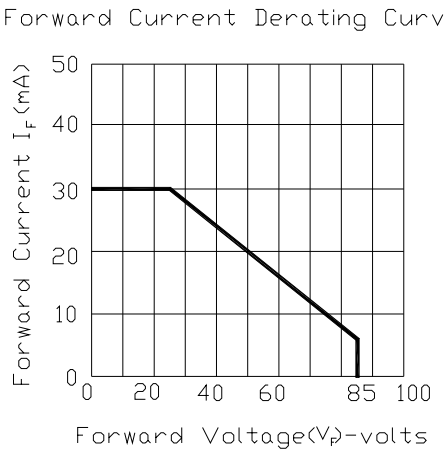
Typical Electro-Optical Characteristics Curves

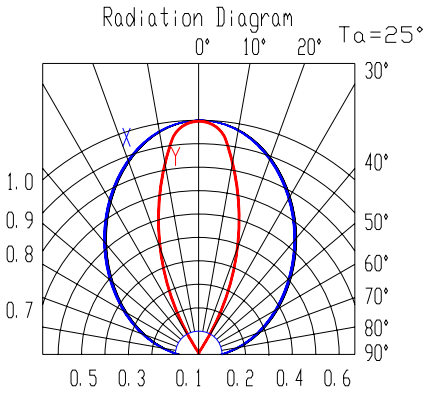












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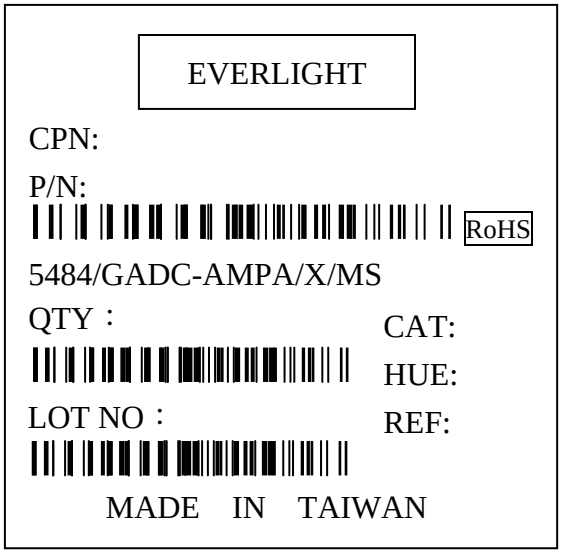
Packing Quantity Specification

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.

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