

5484/R5DC-AJLB/X/MS

Features

- High luminous intensity output
- Oval Shape
- Well defined spatial radiation
- Wide viewing angle (2 θ _{1/2}) : 100° / 40°
- 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

- 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/R5DC-AJLB/MS	AIG I D	**	D 15:00 1	No
5484/R5DC-AJLB/P/MS	AlGaInP	Hyper red	Red Diffused	Yes

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Device Number: DLE-548-029 Prepared date: 07-06-2006 Prepared by: Grace Shen

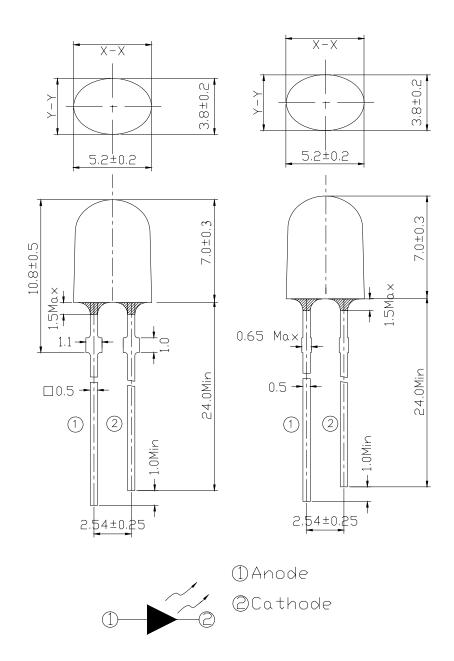


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Package Dimensions

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.

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Absolute Maximum Rating (T_a=25°C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_{F}	50	mA
Pulse Forward Current (Duty1/10@ 1KHz)	$ m I_{FP}$	100	mA
Operating Temperature	Topr	-40 ~ +85	$^{\circ}\!\mathbb{C}$
Storage Temperature	T_{stg}	-40 ~ +100	$^{\circ}\!\mathbb{C}$
Soldering Temperature	T _{sol} *	260 ±5	$^{\circ}\!\mathbb{C}$
Power Dissipation	P _d	120	mW
Reverse Voltage	VR	5	V

Notes: * Soldering time ≤ 5 seconds.

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

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Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	I_{V}	900	1100	1800	mcd	
Viewing Angle	$2 heta_{ ext{1/2}}$		X:100Y:40		deg	
Peak Wavelength	λp		632			T 20 A
Dominant Wavelength	λd	620	624	628	nm	$I_F=20mA$
Spectrum Half width	Δλ		20			
Forward Voltage	V_{F}	1.8	2.0	2.4	V	
Reverse Current	I_R			10	μΑ	V _R =5V

Rank Combination (I_F=20mA)

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

*Measurement Uncertainty of Luminous Intensity: ±15%

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

*Measurement Uncertainty of Forward Voltage: ±0.1V

Rank	1	2	
Dominant Wavelength	620~624	624~628	

^{*}Measurement Uncertainty of Dominant Wavelength ±1.0nm

Unit:mcd

Unit:V

Unit:nm

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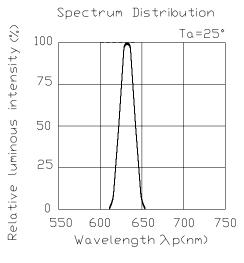
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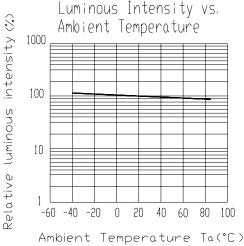
^{*}The quantity ratio of the ranks is decided by EVERLIGHT.

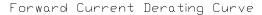


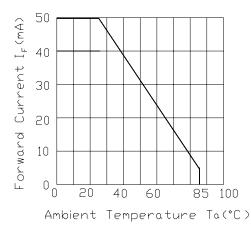
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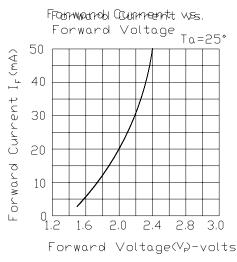
Typical Electro-Optical Characteristics Curves

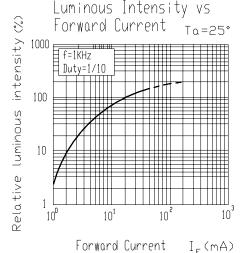


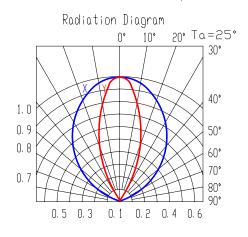












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Packing Quantity Specification

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°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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