

Technical Data Sheet

6374/R5DA-AKMB/X/MS

Features

- High luminous intensity output
- Oval Shape
- Well defined spatial radiation
- Wide viewing angle ($2\theta_{1/2}$) : $70^\circ / 40^\circ$
- UV resistant epoxy
- The product itself will remain within RoHS compliant version



Descriptions

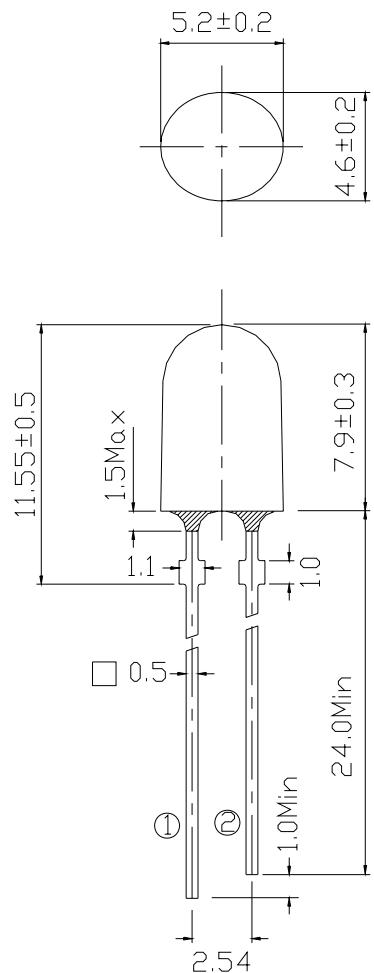
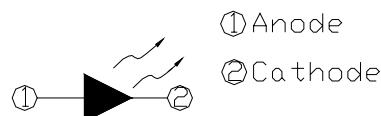
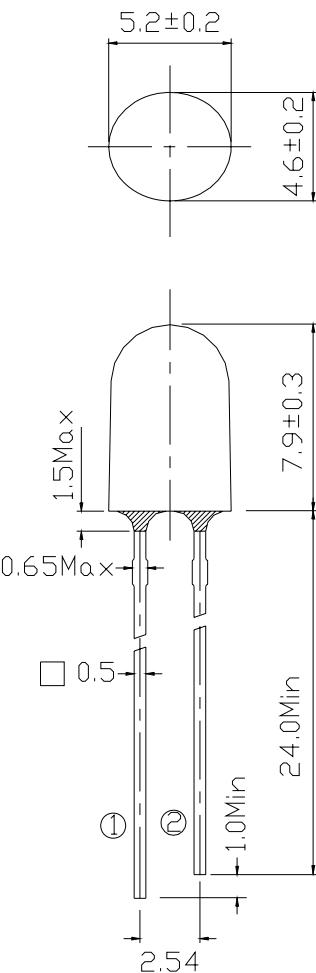
- This precision optical performance oval LED is specifically designed for passenger information signs
- This lamp has matched radiation patterns with yellow, blue or green mixing color applications
- Superior performance in outdoor environment

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
6374/R5DA-AKMB/MS	AlGaInP	Hyper red	Red Diffused	No
6374/R5DA-AKMB /P/MS				Yes

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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6374/R5DA-AKMB/X/MS**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)	I _{FP}	160	mA
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Electrostatic Discharge	ESD	2K	V
Soldering Temperature	T _{sol} *	260 ±5	°C
Power Dissipation	P _d	120	mW
Reverse Voltage	V _R	5	V

Notes: * Soldering time \leq 5 seconds.**Electro-Optical Characteristics (T_a=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _V	1125	1425	2250	mcd	I _F =20mA
Viewing Angle	2θ _{1/2}	--	X:70Y:40	--	deg	
Peak Wavelength	λ _p	--	632	--	nm	
Dominant Wavelength	λ _d	618	624	630		
Spectrum Half width	Δλ	--	20	--		
Forward Voltage	V _F	1.8	2.0	2.6	V	
Reverse Current	I _R	--	--	10	μA	V _R =5V

Rank Combination (I_F=20mA)

Rank	K	L	M
Luminous Intensity	1125~1425	1425~1800	1800~2250

*Measurement Uncertainty of Luminous Intensity: ±15%

Unit:mcd

Rank	1	2	3	4
Forward Voltage	1.8~2.0	2.0~2.2	2.2~2.4	2.4~2.6

*Measurement Uncertainty of Forward Voltage: ±0.1V

Unit:V

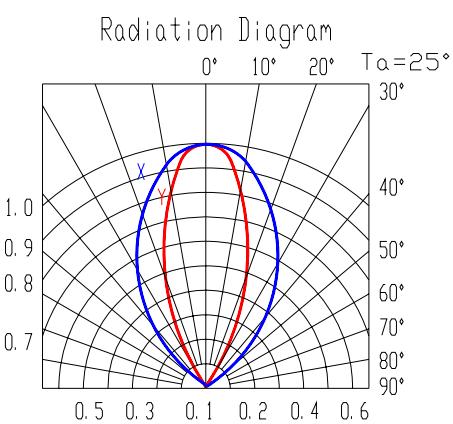
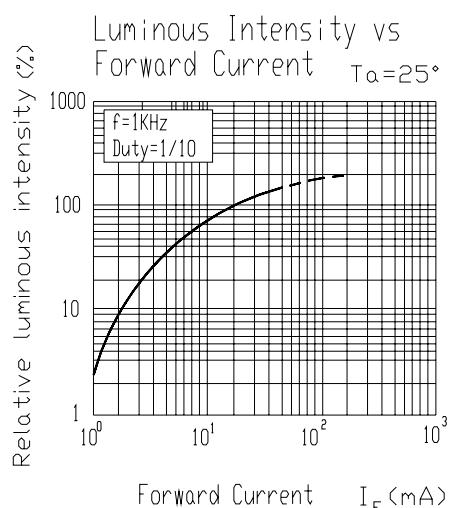
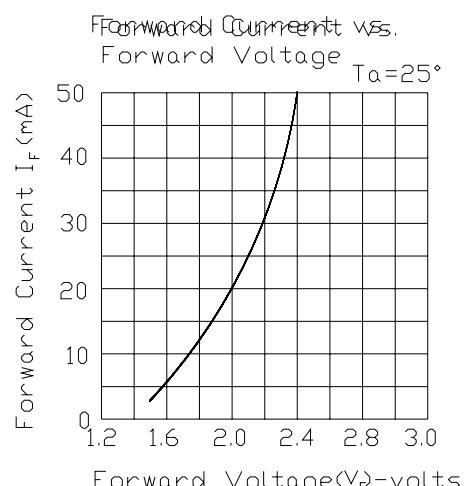
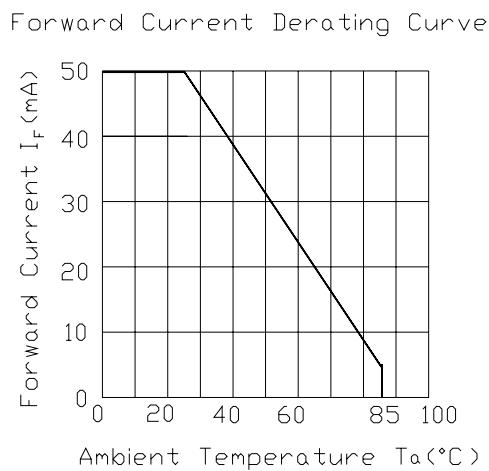
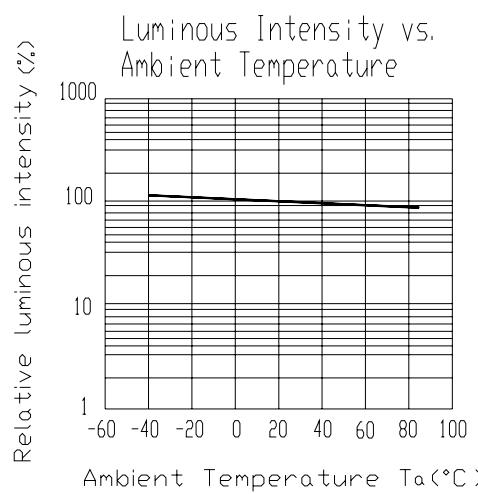
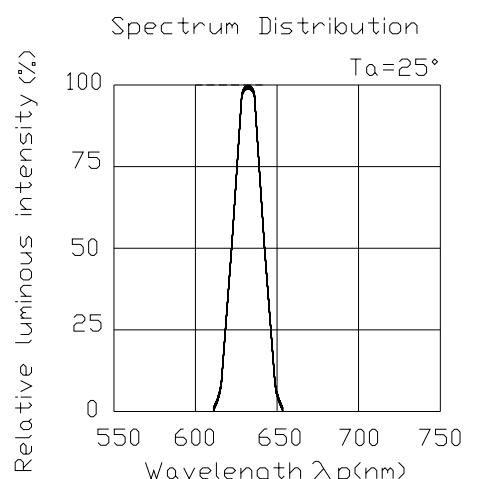
Rank	1	2
Dominant Wavelength	620~624	624~628

*Measurement Uncertainty of Dominant Wavelength ±1.0nm

Unit:nm

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

Technical Data Sheet

6374/R5DA-AKMB/X/MS**Typical Electro-Optical Characteristics Curves**

Technical Data Sheet

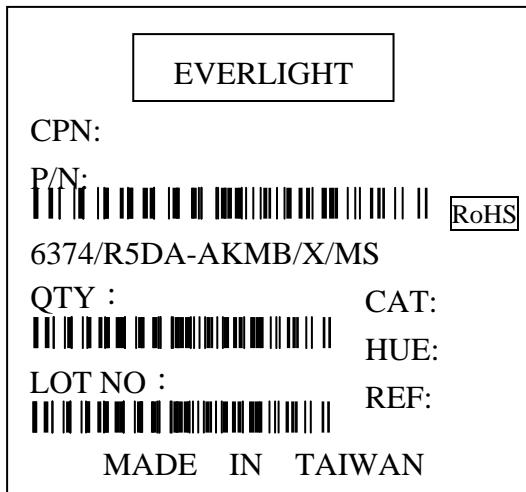
6374/R5DA-AKMB/X/MS

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 Intensity Luminous 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 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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