



Technical Data Sheet

Light Emitting Diode (5 mm Round LED,T-1 3/4)

333-2SURC/H3/OMA-E12

Features

- Popular T-1 3/4 diameter package.
- Choice of various viewing angles.
- Available on tape and reel.
- Reliable and robust.
- Pb free.
- The product itself will remain within RoHS compliant version.



Descriptions

- The series is specially designed for applications requiring higher brightness.
- The LED lamps are available with different colors,intensities,epoxy colors, etc.

Applications

- TV set.
- Monitor.
- Telephone.
- Computer.

Device Selection Guide

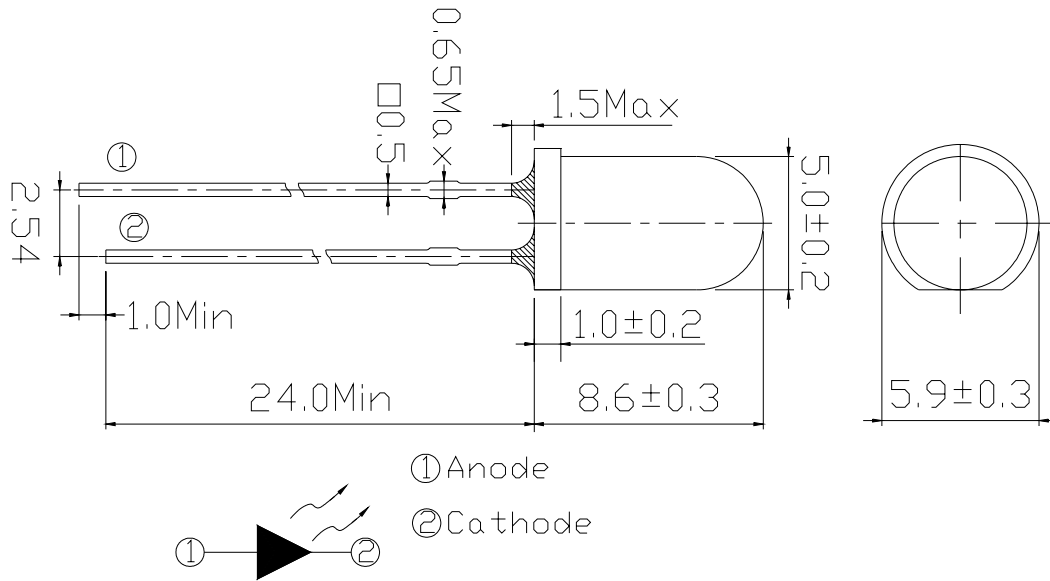
Chip		Lens Color
Material	Emitted Color	
AlGaInP	Hyper Red	Water Clear

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Package Dimensions



Notes:

- All dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Lead spacing is measured where the lead emerges from the package.
- Protruded resin under flange is 1.5mm Max LED.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units
Forward Current	I _F	50	mA
Pulse Forward Current ^{*1}	I _{FP}	100	mA
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Electrostatic Discharge	ESD	2000	V
Soldering Temperature ^{*2}	T _{sol}	260 ±5	°C
Power Dissipation	P _d	120	mW
Reverse Voltage	V _R	5	V

Notes: *1:I_{FP} Conditions--Pulse Width ≤ 10msec and Duty ≤ 1/10.

*2:Soldering time ≤ 5 seconds.

**Technical Data Sheet****Light Emitting Diode (5 mm Round LED,T-1 3/4)****333-2SURC/H3/OMA-E12****Electro-Optical Characteristics (Ta=25°C)**

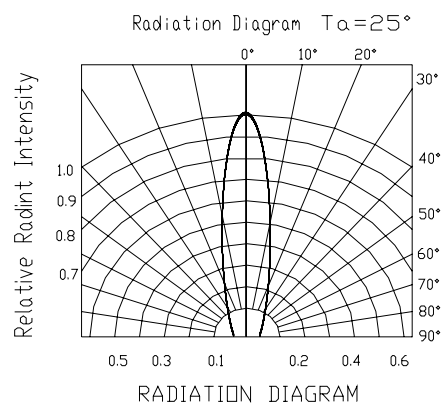
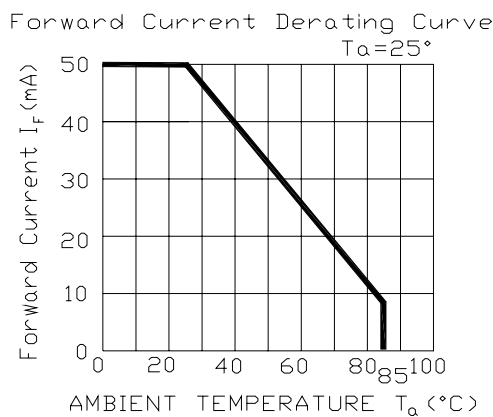
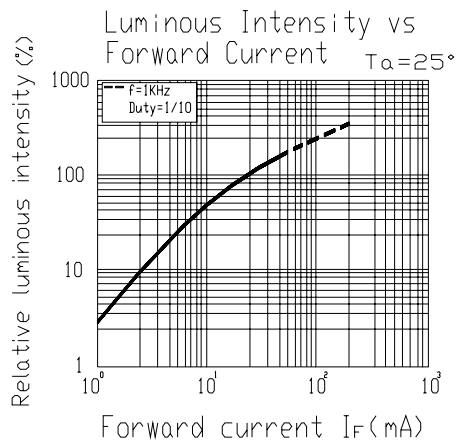
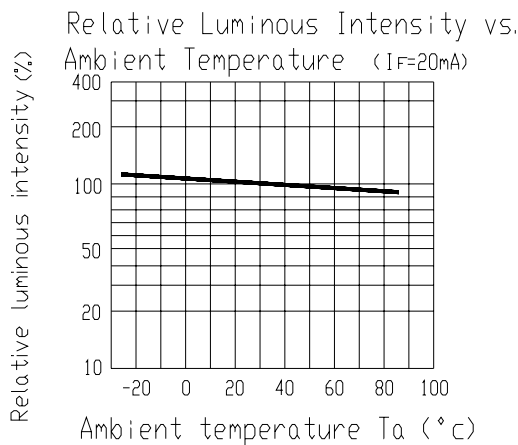
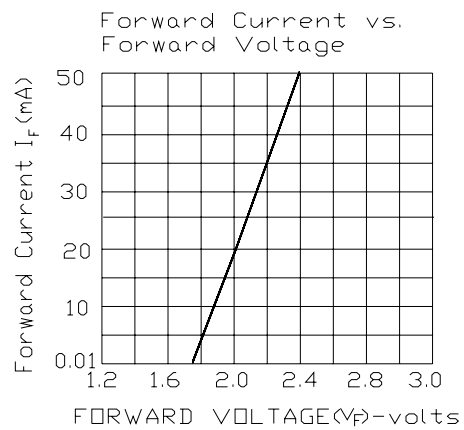
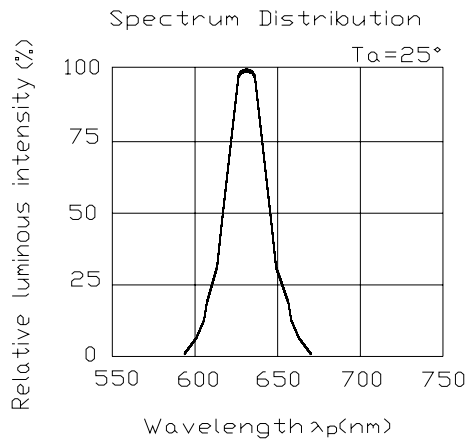
Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Forward Voltage	V_F	$I_F=20mA$	--	2.0	2.4	V
Reverse Current	I_R	$V_R=5V$	--	--	10	μA
Luminous Intensity	I_V	$I_F=20mA$	4000	6300	--	mcd
Viewing Angle	2θ 1/2	$I_F=20mA$	--	15	--	deg
Peak Wavelength	λ_p	$I_F=20mA$	--	632	--	nm
Dominant Wavelength	λ_d	$I_F=20mA$	--	624	--	nm
Spectrum Radiation Bandwidth	$\Delta\lambda$	$I_F=20mA$	--	20	--	nm

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Typical Electro-Optical Characteristics Curves





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Label Form Specification



CPN: Customer's Production Number

P/N : Production Number

7344-15SURC/OMA-EX:Production name

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

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.
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