Technical Data Sheet

EVERLIGHT

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

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			
Material	Emitted Color	Lens Color	
AlGaInP	Super Sunset Orange	Water Clear	

http\\:www.everlight.com Prepared date: 07-25-2005



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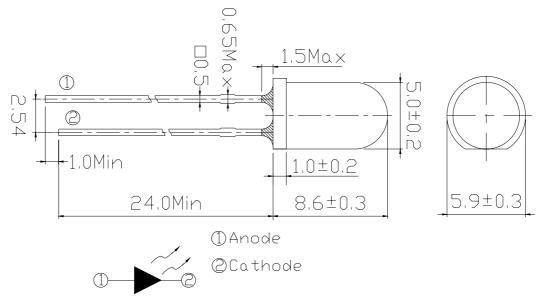
Technical Data Sheet

EVERLIGHT

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

333-2USOC/OMA-E13

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	VR	5	V

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

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Parameter Symbol Condition Min. Typ. Max. Units Forward Voltage V_F $I_F = 20 \text{mA}$ 2.0 2.4 V ---Reverse Current $V_R = 5V$ 10 μA I_R ----Luminous Intensity I_V I_F=20mA 9000 13000 mcd --Viewing Angle $2\theta 1/2$ I_F=20mA 15 ----deg Peak Wavelength λp $I_F = 20 \text{mA}$ 621 ---nm Dominant Wavelength λd I_F=20mA 615 ---nm Spectrum Radiation Δλ I_F=20mA 18 ---nm Bandwidth

Electro-Optical Characteristics (Ta=25°C)

*2:Soldering time \leq 5 seconds.

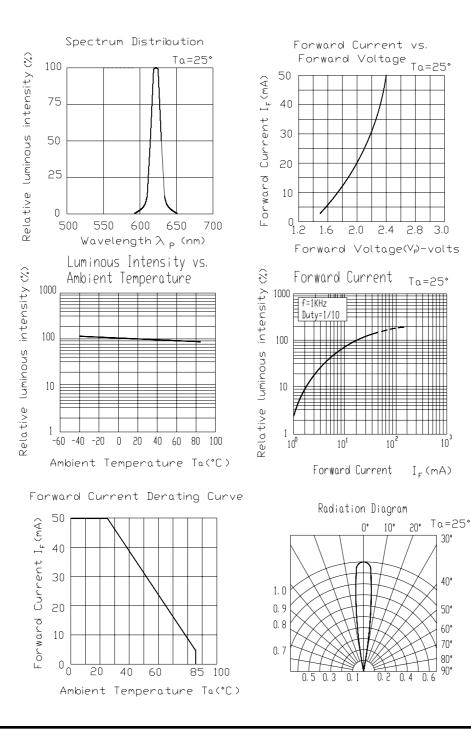
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Typical Electro-Optical Characteristics Curves



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Technical Data Sheet

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

Label Form Specification



333-2USOC/OMA-E13

CPN: Customer's Production Number P/N : Production Number 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.
- 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.

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