

Features:

- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust
- Pb free

Descriptions:

- The series is specially designed for applications requiring higher brightness
- The led lamps are available with different colors, intensities,

Applications:

- TV set
- Monitor
- Telephone
- Computer

PART NO.	Material	Emitted Color	Lens Color
333HD	GaP	Bright Red	Red Diffused

333HD



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number: CDLE-033-492

http://www.everlight.com

Rev.: 4

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Prepared date:

2004/6/28

Prepared by:

Caixia wu

A0003021



333HD

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition			Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF=	10	mA	1.5	2.0	2.4	V
Reverse Current	Ir	Vr=	5	V	/	/	10	μ A
Luminous Intensity	Iv	IF=	10	mA	1.0	2.0		mcd
Viewing Angle	2 θ 1/2	IF=	10	mA	/	60		deg
Peak Wavelength	λр	IF=	10	mA	/	697	/	nm
Dominant Wavelength	λd	IF=	10	mA	/	650		nm
Spectrum Radiation Bandwidth	Δλ	IF=	10	mA	/	90		nm

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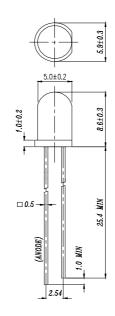
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Downloaded from Arrow.com.



333HD

Package Dimensions



Notes: 1. All dimensions are in millimetres

- 2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
- 3. Tolerances unless Dimension ±0.25mm.

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol Rating		Unit	
Forward Current	rrent IF 15		mA	
Operating Temperature	Topr	-40 to +85	$^{\circ}\! C$	
Storage Temperature	Tstg	-40 to +100	$^{\circ}\mathbb{C}$	
Soldering Temperature	Tsol	260 ± 5	$^{\circ}\mathbb{C}$	
Power Dissipation	Pd	45	mW	
Peak Forward Current	IF(Peak)	50	mA	
Reverse Voltage	Vr	5	V	

Note: *1:IFP Conditions --Pulse Width \leq 1msec and Duty \leq 1/10.

*2:Soldering time \leq 5 seconds.

CDLE-033-492

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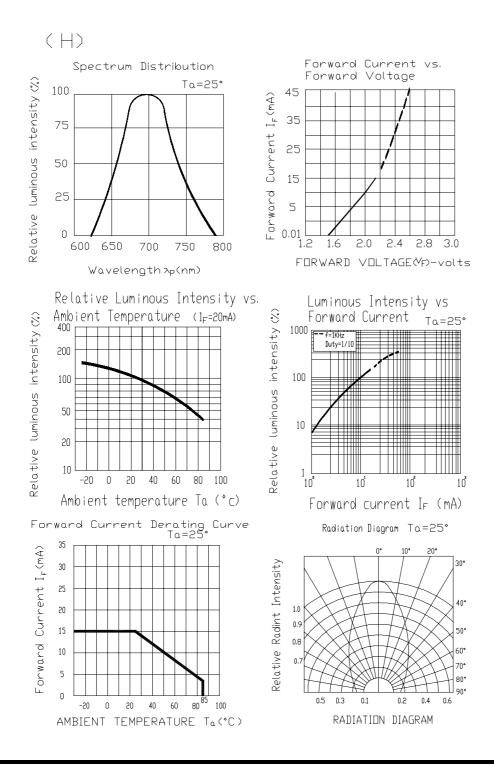
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■ Typical Electro-Optical Characteristic Curves:



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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample size	Ac/Re
1	Solder Heat	TEMP : 260° C ± 5 $^{\circ}$ C	10 SEC	76 PCS	0/1
2	Temperature Cycle	$H: +100^{\circ}C$ 15min \int 5 min $L: -40^{\circ}C$ 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	$H: +100^{\circ}\mathbb{C}$ 5min $\int 10 \sec L: -10^{\circ}\mathbb{C}$ 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25°C If = 10mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85℃ / 85% RH	1000 HRS	76 PCS	0/1

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Packing Quantity Specification

- 1.500PCS/1Bag, 5Bags/1Box
- 2.10Boxes/1Carton

Label Form Specification

EVERLIGHT

CPN: P/N:

MADE IN TAIWAN

CPN: Customer's Production Number

P/N: Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Peak 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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