



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-125-015 REV: 1.2

3mm Round Small Flange Without stand-off LEDs, T-1

MODEL NO : 1254YD ECN :          Page: 1/4

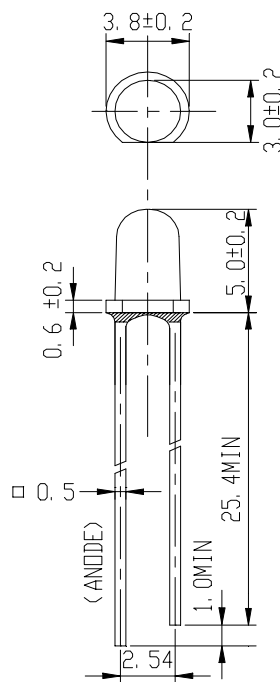
## Features :

- High luminous power.
- Can be driven at low current.
- 2.54mm lead spacing.
- Available on tape and reel.

## Descriptions :

- The series is specially designed for applications **require** higher brightness than that achievable with standard lamp.
- The LED lamps are available with **different colors,intensities**, epoxy colors, etc.

## Package Dimensions:



## Applications :

- TV Set
- Monitor
- Telephone
- Computer

## NOTES :

- 1.All dimensions are **in** millimeters.
2. Epoxy meniscus may extend about 1.5mm(0.059") down **to** the lead.

PART NO	CHIP		Lens Color
	Material	Emitted Color	
1254YD	GaAsP/GaP	Yellow	Yellow Diffused

Office : NO 25,Lane 76, Chung Yang Rd, Sec.3, Tucheng, Taipei 236, Taiwan, R.O.C.

TEL : 886-2-2267-2000,2266-9936(22 Lines)

FAX : 886-2-2267-6189

[http: //www.everlight.com](http://www.everlight.com)



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-125-015 REV: 1.2

3mm Round Small Flange Without stand-off LEDs, T-1

MODEL NO : 1254YD ECN :          Page: 2/4

## ■ Absolute Maximum Ratings at $T_a = 25^{\circ}\text{C}$

Parameter	Symbol	Rating	Unit
Forward Current	If	20	mA
Operating Temperature	Topr	-40 to +85	$^{\circ}\text{C}$
Storage Temperature	Tstg	-40 to +100	$^{\circ}\text{C}$
Soldering Temperature	Tsol	$260 \pm 5$	$^{\circ}\text{C}$
Power Dissipation	Pd	85	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	160	mA
Reverse Voltage	Vr	5	V

## ■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	Iv	10.0	16.0	----	mcd	If=10mA
Viewing Angle	$2\theta$ 1/2	-----	40	----	deg	If=20mA
Peak Wavelength	$\lambda_p$	----	585	----	nm	If=20mA
Dominant Wavelength	$\lambda_d$	----	590	----	nm	If=20mA
Spectrum Radiation Bandwidth	$\Delta\lambda$	----	35	----	nm	If=20mA
Forward Voltage	Vf	1.7	2.0	2.6	V	If=20mA
Reverse Current	Ir	----	----	10	$\mu\text{A}$	Vr=5V



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-125-015

REV: 1.2

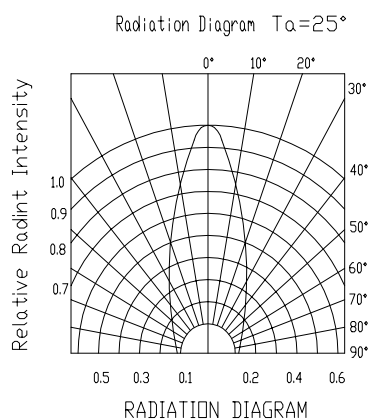
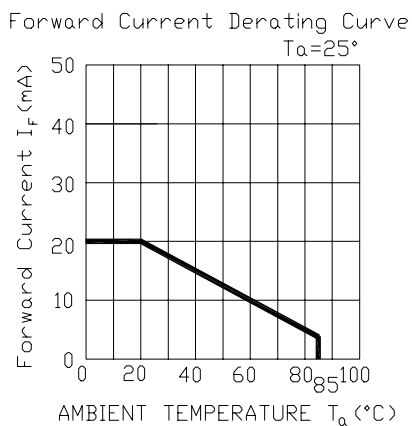
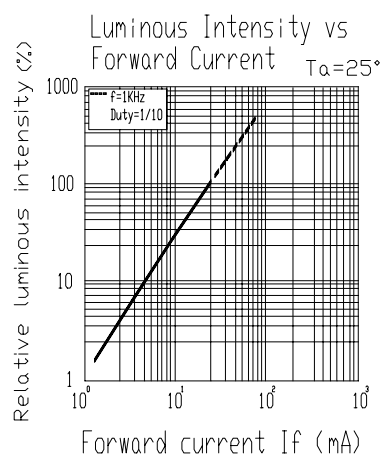
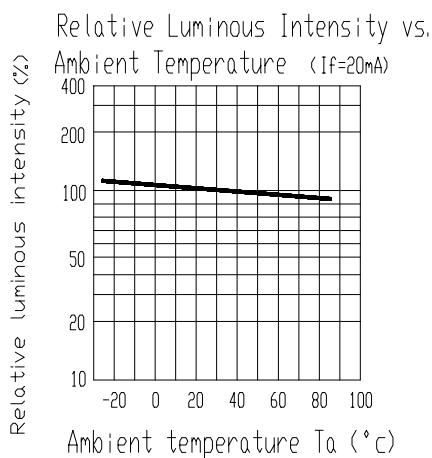
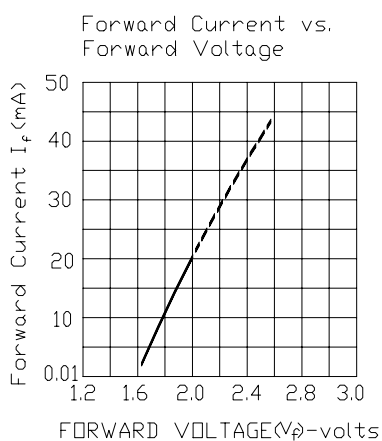
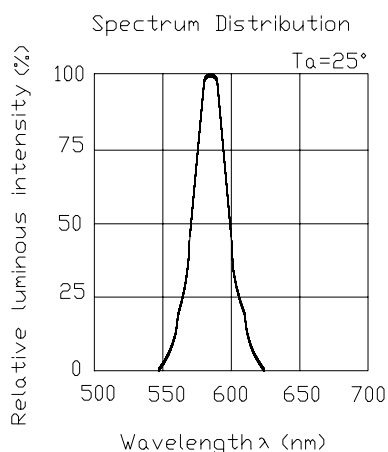
3mm Round Small Flange Without stand-off LEDs, T-1

MODEL NO 1254YD

ECN :                     

Page: 3/4

## ■ Typical Electro-Optical Characteristic Curves





# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-125-015

REV: 1.2

3mm Round Small Flange Without stand-off LEDs, T-1

MODEL NO 1254YD

ECN :

Page: 4/4

## ■ Reliability test items and conditions

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering Heat	TEMP : 260°C ± 5 °C	5 SEC	76 Pcs	0/1
2	Temperature Cycle	H : +85°C 30min ∫ 5 min L : -55°C 30min	50 CYCLE	76 Pcs	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	50 CYCLE	76 Pcs	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 Pcs	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 Pcs	0/1
6	DC Operating Life	If = 20 mA	1000 HRS	76 Pcs	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 Pcs	0/1