



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-425-012 REV: 1.0

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

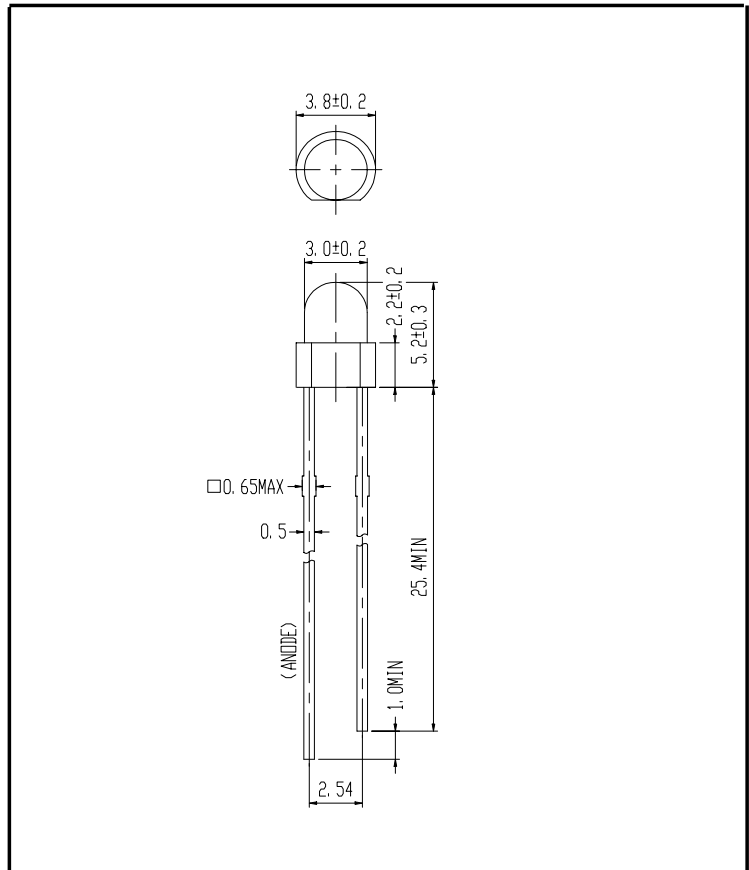
PART NO. : 4254UYC/S996 ECN : \_\_\_\_\_ Page: 1/4

### 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 requiring higher brightness.
- The LED lamps are available with different colors,intensities, epoxy colors, etc.



### Applications :

- TV Set
- Monitor
- Telephone
- Computer

### Notes :

- 1.All dimensions are in millimeters.
- 2.An epoxy meniscus may extend about 1.5mm(0.059")mm down to the lead.
- 3.Tolerances unless dimension  $\pm 0.25$ mm

PART NO	Chip		Lens Color
	Material	Emitted Color	
4254UYC/S996	AlGaInP	Super Yellow	Water Clear

B89092427.8910001

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## ■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	I <sub>F</sub>	25	mA
Operating Temperature	T <sub>opr</sub>	-40 to +85	°C
Storage Temperature	T <sub>stg</sub>	-40 to +100	°C
Soldering Temperature	T <sub>sol</sub>	260 ± 5	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	P <sub>d</sub>	60	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	I <sub>F</sub>	160	mA
Reverse Voltage	V <sub>R</sub>	5	V

## ■ Electronic Optical Characteristics :

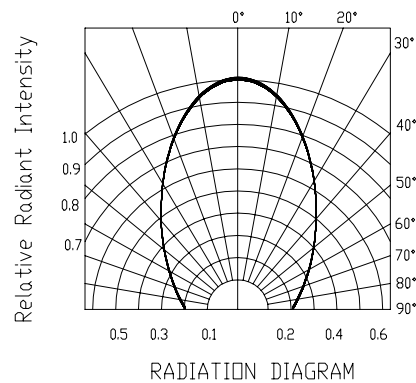
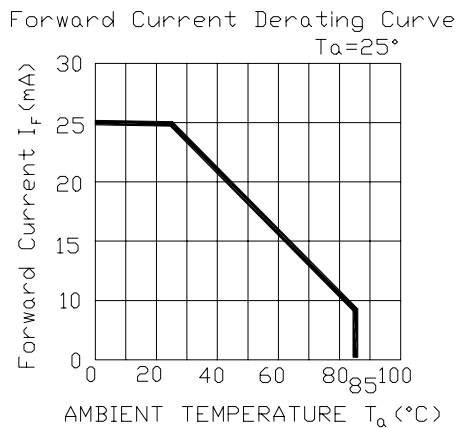
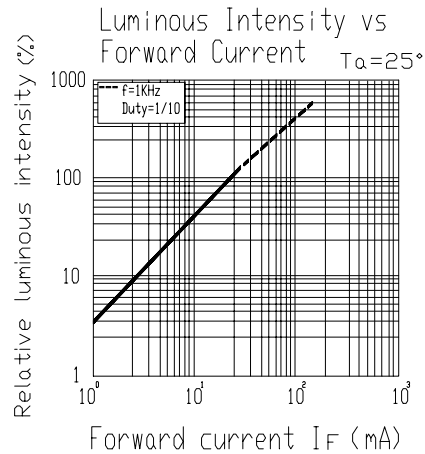
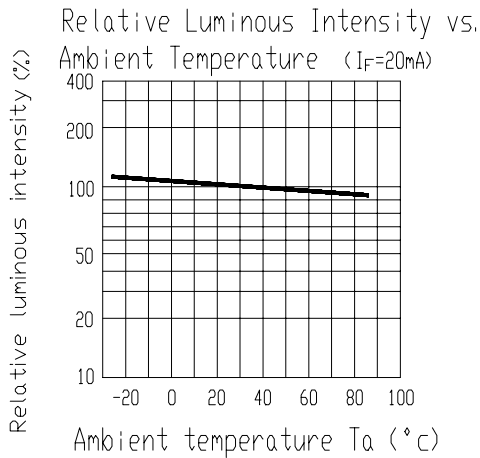
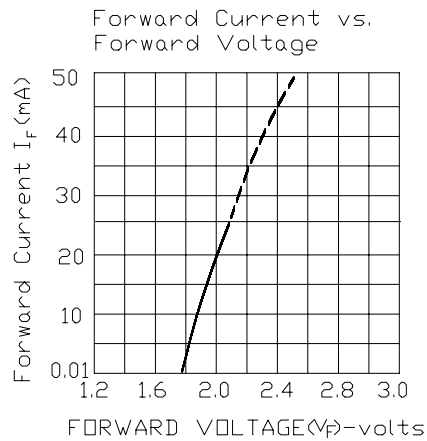
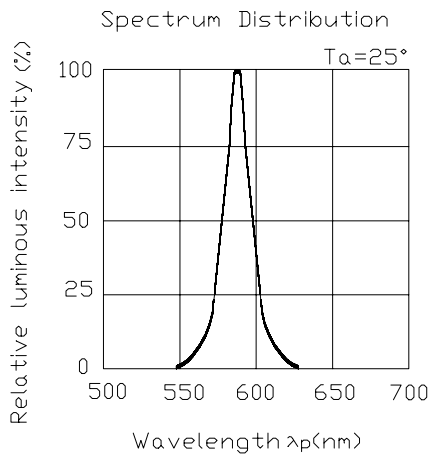
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I <sub>v</sub>	63	100	----	mcd	I <sub>F</sub> =20mA
Viewing Angle	2θ 1/2	-----	80	----	deg	I <sub>F</sub> =20mA
Peak Wavelength	λ <sub>p</sub>	----	591	----	nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>	----	589	----	nm	I <sub>F</sub> =20mA
Spectrum Radiation Bandwidth	△ λ	----	15	----	nm	I <sub>F</sub> =20mA
Forward Voltage	V <sub>F</sub>	----	2.0	2.4	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>	----	----	10	μ A	V <sub>R</sub> =5V





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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 °C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85°C 30min ∫ 5 min L : -55°C 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	50 CYCLES	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	TEMP : 25°C IF=20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1