



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-125-113 REV: 1.0

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

PART NO. : 1254AD ECN : _____ Page: 1/4

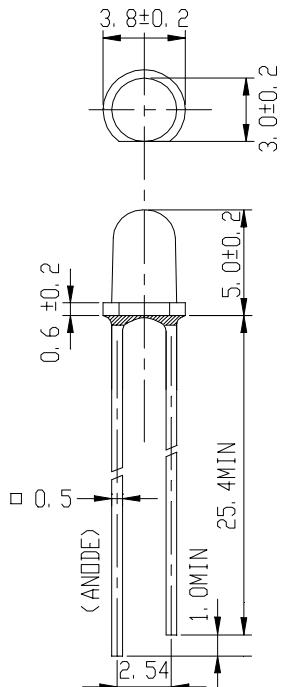
■ Features :

- 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.

■ Package Dimensions:



■ Applications :

- TV Set
- Monitor
- Telephone
- Computer

■ Note :

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

PART NO	Chip		Lens Color
	Material	Emitted Color	
1254AD	GaAsP/GaP	Yellow	Amber Diffused

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PART NO. : 1254AD ECN : _____ Page: 2/4■ Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Forward Current	I_F	25	mA
Operating Temperature	T_{opr}	-40 to +85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +100	$^\circ\text{C}$
Soldering Temperature	T_{sol}	260 ± 5	$^\circ\text{C}$
Power Dissipation	P_d	85	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	$I_F(\text{Peak})$	160	mA
Reverse Voltage	V_R	5	V

■ Electronic Optical Characteristics :

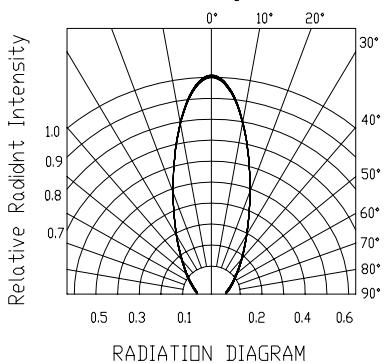
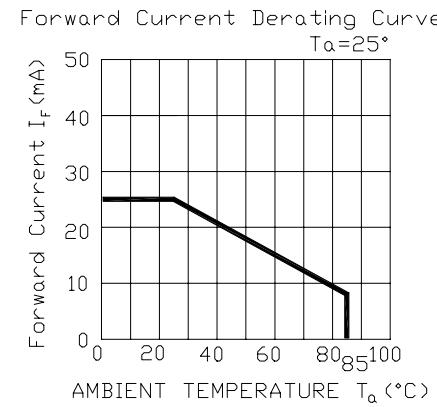
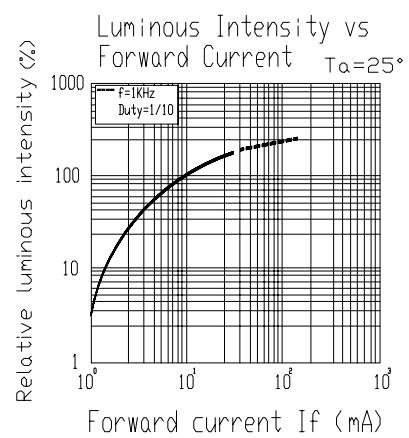
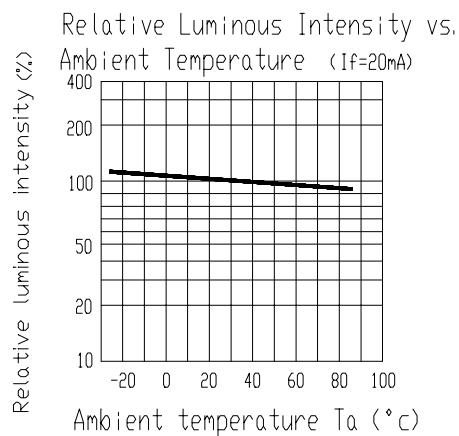
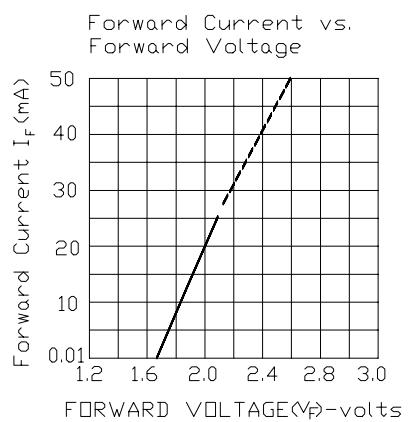
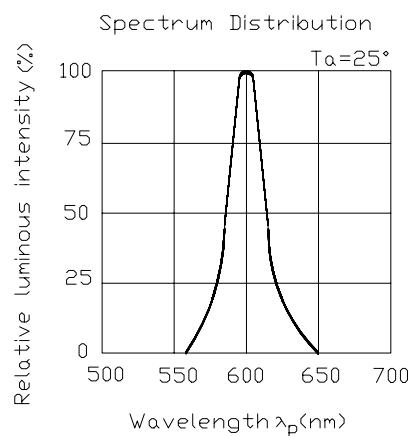
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous intensity	I_v	10	16	----	mcd	$I_F=10\text{mA}$
Viewing Angle	$2\theta_{1/2}$	-----	40	----	deg	$I_F=20\text{mA}$
Peak Wavelength	λ_p	----	600	----	nm	$I_F=20\text{mA}$
Dominant Wavelength	λ_d	----	----	----	nm	$I_F=20\text{mA}$
Spectrum Radiation Bandwidth	$\Delta\lambda$	----	35	----	nm	$I_F=20\text{mA}$
Forward Voltage	V_F	1.7	2.0	2.4	V	$I_F=20\text{mA}$
Reverse Current	I_R	----	----	10	μA	$V_R=5\text{V}$



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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 : $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : $+85^{\circ}\text{C}$ 30min L : -55°C 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : $+100^{\circ}\text{C}$ 5min 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 $I_F=20\text{mA}$	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	$85^{\circ}\text{C}/85\%$ RH	1000 HRS	76 PCS	0/1