

Part No.

AL-519EGW-C-004

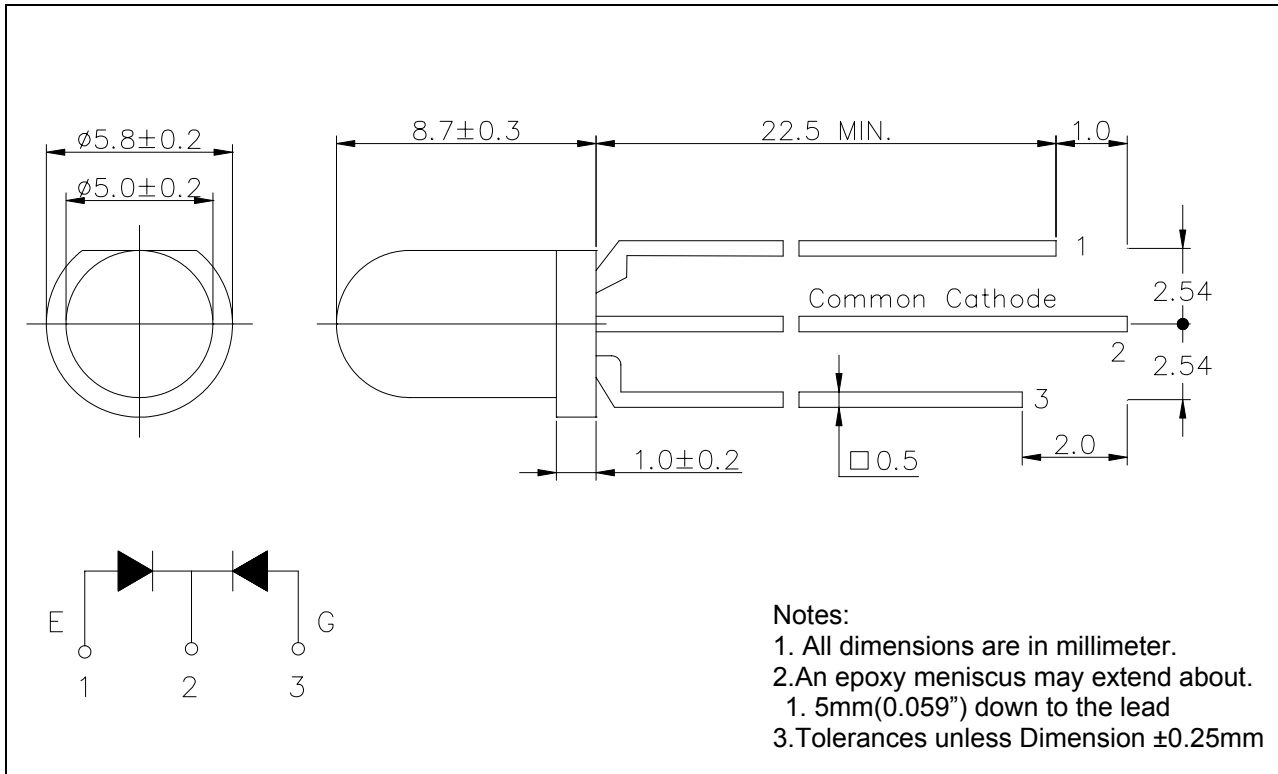
Diff No. 004

5 mm

Round

Type : LED Lamps

Package Dimension :



■ Features :

- Choice of various viewing angles.
- Available on Tape and Reel.
- Reliable and robust.

■ Descriptions :

- The series is specially designed for application requiring higher brightness.
- The LED lamps are available with different colors, intensity, epoxy colors etc.

■ Applications :

- TV set
- Monitor
- Telephone

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PART NO.	Chip		Lens Color
	Material	Emitted Color	
AL-519EGW-C-004	GaAsP/GaP	Orange Red	White Diffused
	GaP/GaP	Yellow Green	

■ Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Forward Current	I _F	30	mA
Operating Temperature	T _{opr}	-20 to +80	°C
Storage Temperature	T _{stg}	-30 to +100	°C
Soldering Temperature	T _{sol}	260 ± 3	°C
Power Dissipation	P _D	85	mW
Peak Forward Current (Duty 1/10@1KHz)	I _F (Peak)	100	mA
Reverse Voltage	V _R	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition	
Luminous Intensity	I _v	E	50	70	/	mcd	I _F =20mA
		G	60	80	/		
Viewing Angle	2θ1/2	/	90	/	deg	I _F =20mA	
Peak Wavelength	λ _p	E	/	630	/	nm	I _F =20mA
		G	/	573	/		
Dominant Wavelength	λ _d	E	/	625	/	nm	I _F =20mA
		G	/	568	/		
Spectrum Radiation Bandwidth	Δλ	E	/	30	/	nm	I _F =20mA
		G	/	30	/		
Forward Voltage	V _F	E	/	2.1	2.4	V	I _F =20mA
		G	/	2.2	2.4		
Reverse Current	I _R	/	/	50	μA	V _R =5V	

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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 ┆ 5min L : -55°C 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ┆ 10set 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 =20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C / 85%RH	1000 HRS	76 PCS	0/1

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■ **Typical Electrical/Optical Characteristics Curve:**
(25°C Ambient Temperature Unless Otherwise Noted)

Fig1. Relative Intensity vs. Wavelength

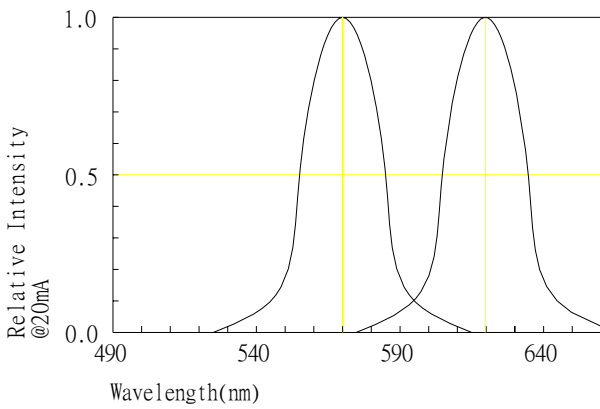


Fig2. Forward Current vs. Forward Voltage

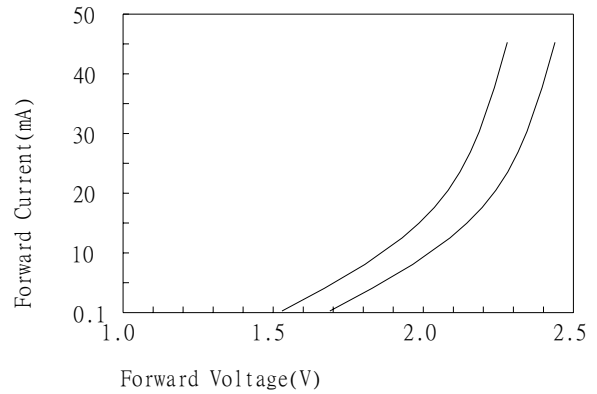


Fig3. Relative Intensity vs. Forward Current

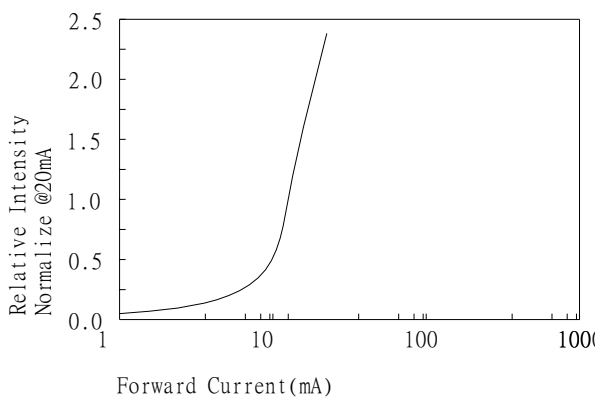


Fig4. Forward Voltage vs. Temperature

