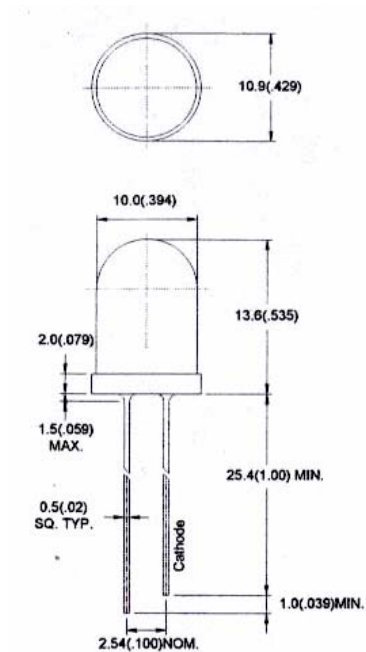


## LE513UGC



### Note :

1. All dimension are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (0.01") unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

### Features:

1. Chip Material: Gap/GaP
2. Emitted color : Green
3. Lens Appearance : Water Clear
4. Low Power consumption
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 5mm diameter package.
9. This product don't contain restriction substance, compliance ROHS standard.

### Application:

1. TV sets
2. Monitor
3. Telephone
4. Computer
5. Circuit board

Parameter	Symbol	Rating	Unit
Power Dissipation	$P_d$	80	mW
Forward Current	$I_F$	30	mA
Peak Forward Current <sup>*1</sup>	$I_{FP}$	150	mA
Reverse Voltage	$V_R$	5	V
Operating Temperature	$T_{opr}$	$-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$	
Storage Temperature	$T_{stg}$	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	
Soldering Temperature	$T_{sol}$	$260^{\circ}\text{C}$ (for 5 seconds)	

\*1 Condition for  $I_{FP}$  is pulse of 1/10 duty and 0.1msec width.

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**Electrical and optical characteristics (Ta=25°C)**

<b>Parameter</b>	<b>Symbol</b>	<b>Condition</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Unit</b>
Forward Voltage	$V_F$	$I_F=20\text{mA}$	-	2.2	2.6	V
Luminous Intensity	$I_V$	$I_F=20\text{mA}$	-	500	-	Mcd
Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	100	$\mu\text{A}$
Peak Wave Length	$\lambda_p$	$I_F=20\text{mA}$	-	568	-	nm
Dominant Wave Length	$\lambda_d$	$I_F=20\text{mA}$	560	-	576	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20\text{mA}$	-	30	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	15	-	deg

## Typical Electro-Optical Characteristics Curves

Fig.1 Relative intensity vs. Wavelength

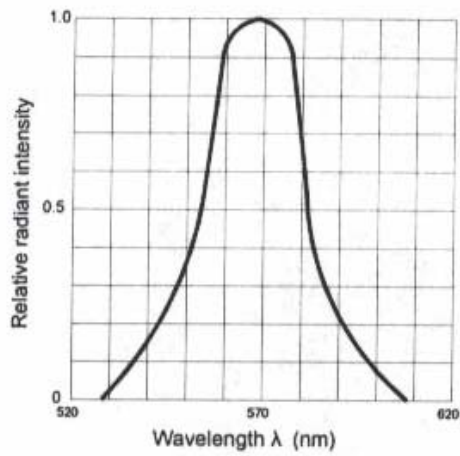


Fig.2 Forward current derating curve vs. Ambient temperature

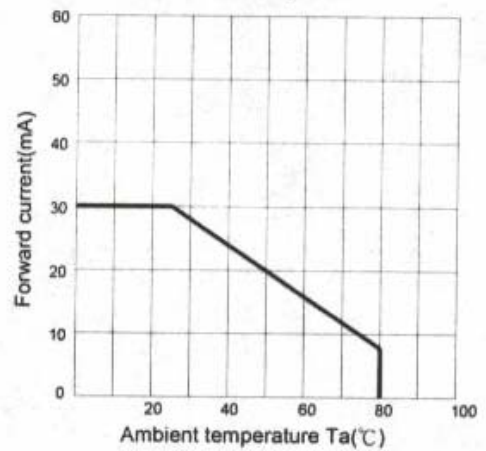


Fig.3 Forward current vs. Forward voltage

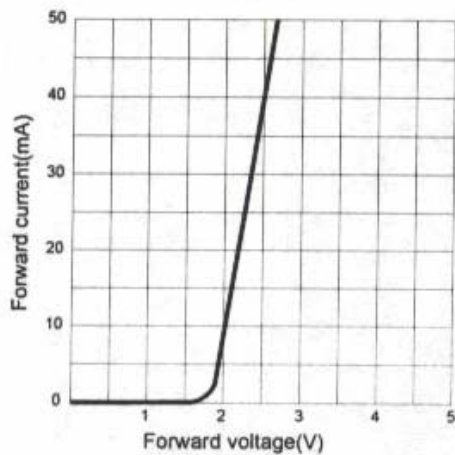


Fig.4 Relative luminous intensity vs. Ambient temperature

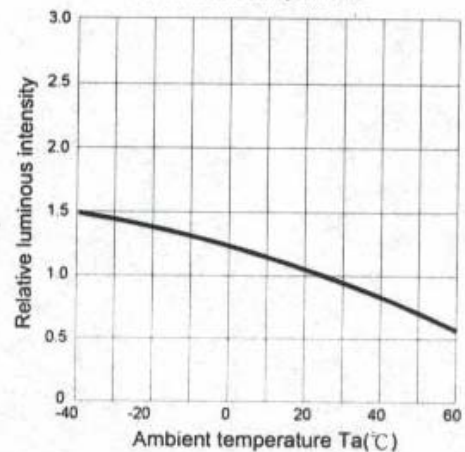


Fig.5 Relative luminous intensity vs. Forward current

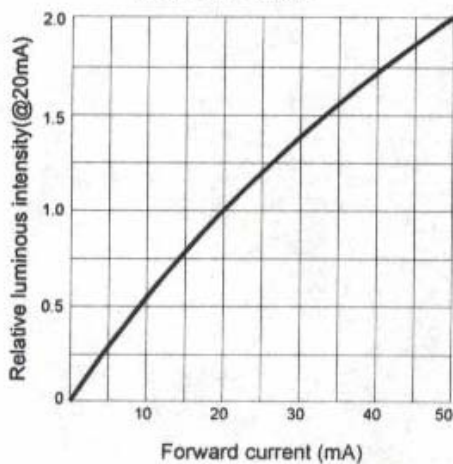


Fig.6 Radiation diagram

