

■ Description

The **LK333GD** series are **GaP** Light Emitting Diode, The series is specially designed for applications requiring higher brightness. The led lamp is available with different colors, intensities epoxy colors, etc.

■ Features

- High luminous power.
- Can be driven at low current.
- 2.54mm lead spacing.
- Available on tape and reel.
- The product itself will remain within RoHS Compliant version.

■ Applications

- TV set.
- Monitor.
- Telephone.
- Computer.

■ Absolute Maximum Ratings (at Ta=25°C)

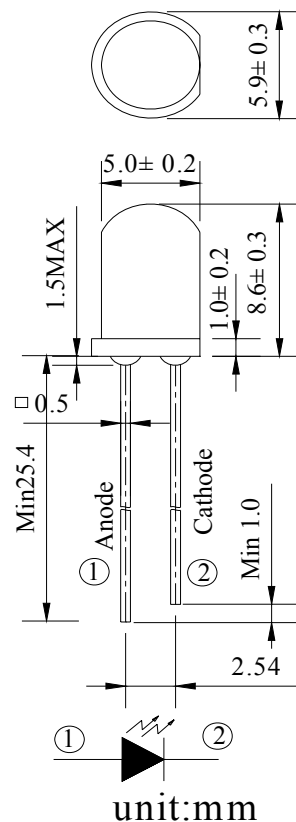
Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	P _D	100	mW
Forward Current	I _F	30	mA
Peak Forward Current (Pulse width ≤ 100 μS duty ≤ 1/10)	I _{FP}	60	mA
Reverse Voltage	V _R	5	V
Operation Temperature	Topr	-25 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Electrostatic Discharge	ESD	3000	V
Lead Soldering Temperature (2mm from the case t ≤ 5S)	Tsol	260	°C

■ Basic Characteristics

T_a=25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =20mA	--	2.0	2.4	V
Reverse Current	I _R	V _R =5V	--	--	10	μA
Dominant Wavelength	λ _D	I _F =20mA	--	570	--	nm
Peak Wavelength	λ _P	I _F =20mA	--	565	--	nm
Spectral Bandwidth	Δλ	I _F =20mA		30		nm
Luminous Intensity	I _V	I _F =20mA	16.0	40.0	--	mcd
50% View Angle	2θ _{1/2}	I _F =20mA		60		deg

■ Package Dimensions



Notes: without special declared, the tolerance is +/-0.25mm

■ Typical Electrical / Optical / Characteristics Curves

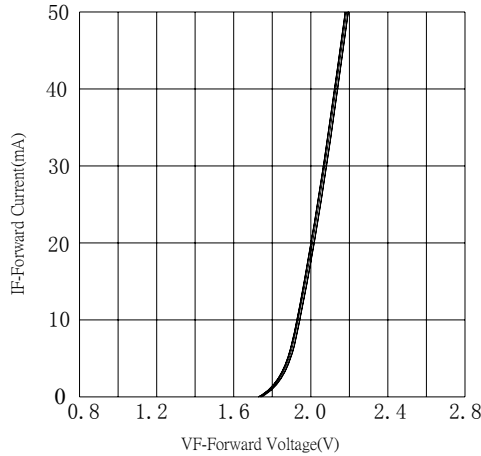


Fig.1 Forward Current vs. Forward Voltage

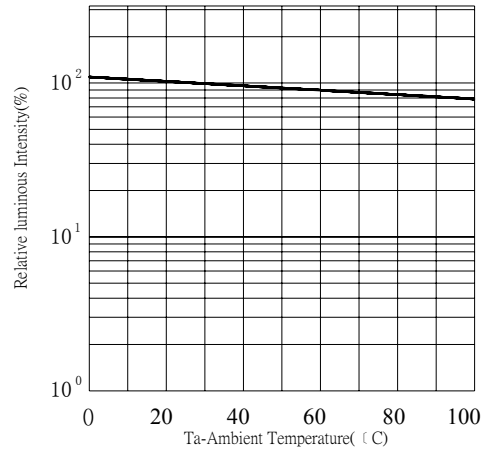


Fig.2 Relative luminous Intensity vs. Ambient Temperature

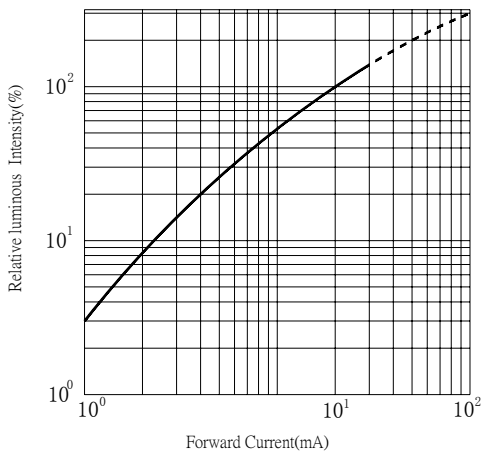


Fig.3 Relative luminous Intensity vs. Forward Current

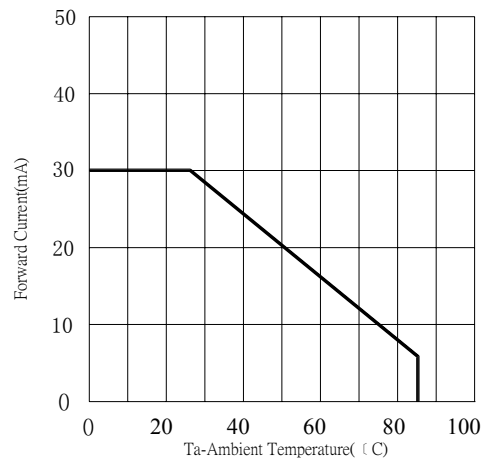


Fig.4 Forward Current vs. Ambient Temperature

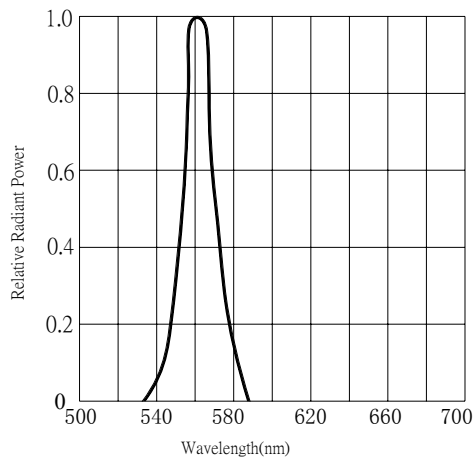


Fig.5 Relative Radiant Power vs. Wavelength

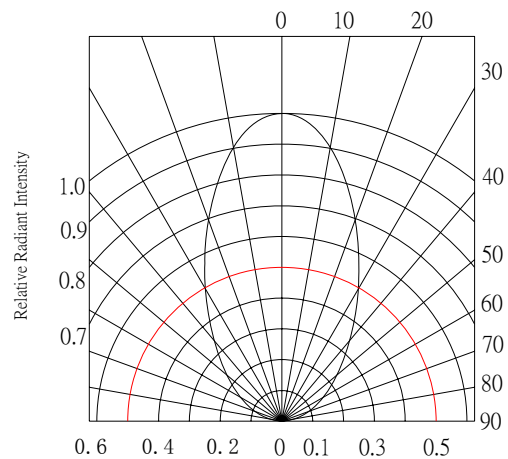


Fig.6 Relative Radiant Intensity vs. Angular Displacement