

Luminosity Full color Led**LK61-23SURUBSUGC****■ Description**

Due to the package design,61-23 has wide viewing Angle, low power consumption and high luminous intensity, This feature makes it ideal for light pipe or lighting application.

■ Features

- High Luminosity.
- Low Thermal Resistance.
- Low Profile.
- The product itself will remain within ROHS Compliant version.

■ Applications

- Indicator.
- Information boards.
- Lighting for small size device.

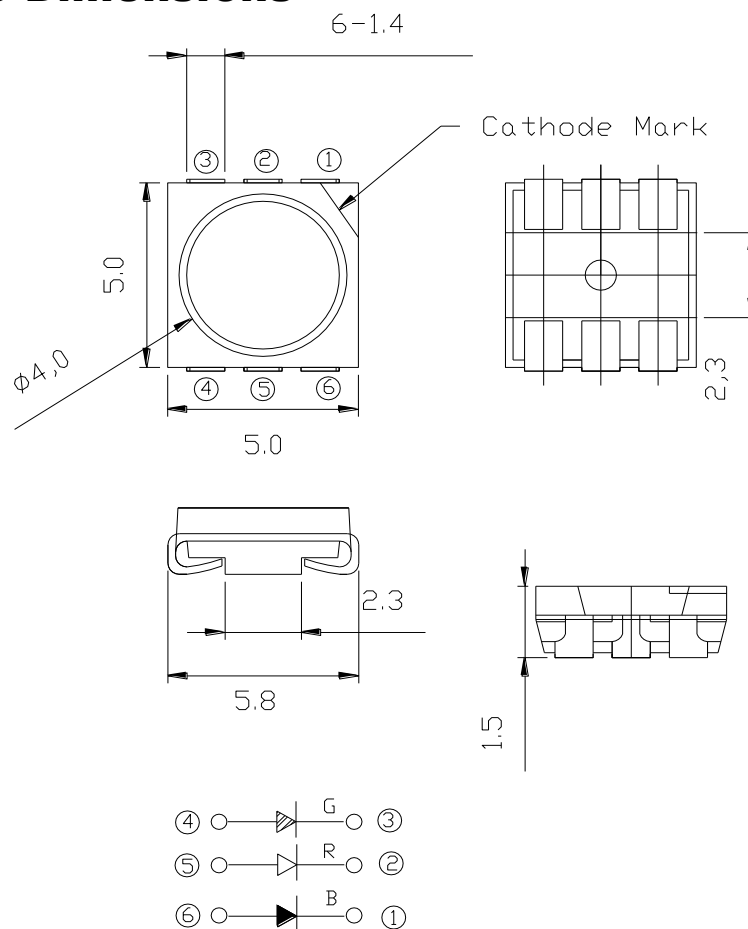
■ Absolute Maximum Ratings (at Ta=25°C)

Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	P_D	100	mW
Forward Current	I_F	25	mA
Peak Forward Current (Pulse width $\leq 100 \mu S$ duty $\leq 1/10$)	I_{FP}	60	mA
Reverse Voltage	V_R	5	V
Operation Temperature	T_{opr}	-25 ~+85	°C
Storage Temperature	T_{stg}	-40 ~ +90	°C
Electrostatic Discharge	ESD	150	V
Soldering Temperature	T_{sol}	Reflow Soldering:250 °C for 10s	°C

■ Basic Characteristics

Luminosity Full color Led
LK61-23SURUBSUGC
 $T_a=25^{\circ}\text{C}$ (SUR/SUG/UB)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	--	2.0/3.2/3.2	2.4/4.0/4.0	V
Reverse Current	I_R	$V_R=5\text{V}$	--	--	50	μA
Dominant Wavelength	λ_D	$I_F=20\text{mA}$	--	624/525/470	--	nm
Peak Wavelength	λ_P	$I_F=20\text{mA}$	--	632/518/468	--	nm
Spectral Bandwidth	$\Delta\lambda$	$I_F=20\text{mA}$	--		--	nm
Luminous Intensity	I_V	$I_F=20\text{mA}$		300/600/300	--	mcd
50% View Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	---	120	--	deg

Package Dimensions


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

■ **Typical Electrical / Optical / Characteristics Curves**

UB

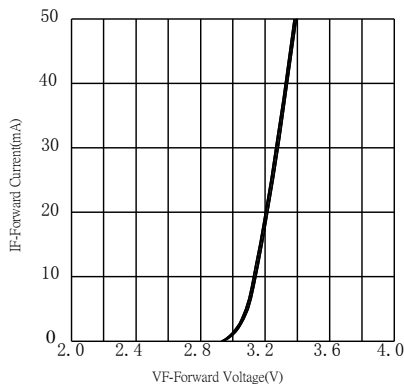


Fig.1 Forward Current vs.Forward Voltage

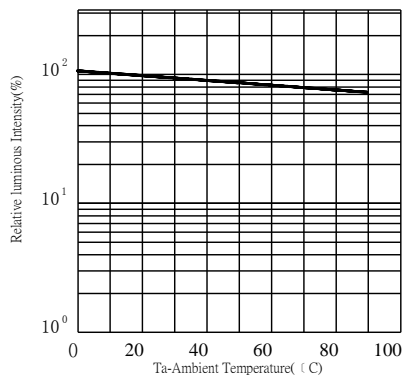


Fig.2 Relative luminous Intensity vs.Ambient Temperature

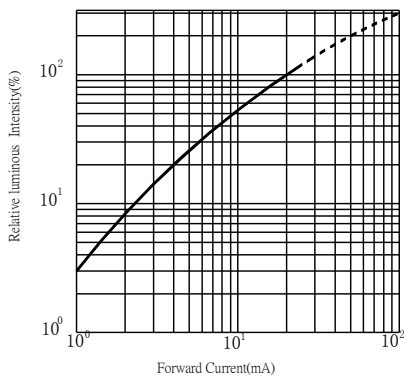


Fig.3 Relative luminous Intensity vs.Forward Current

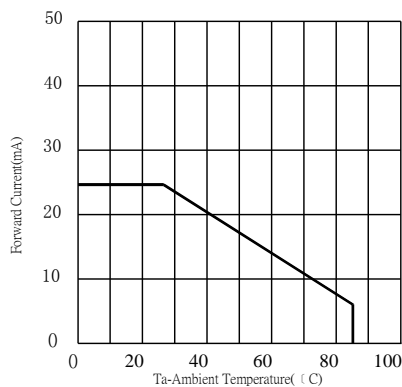


Fig.4 Forward Current vs.Ambient Temperature

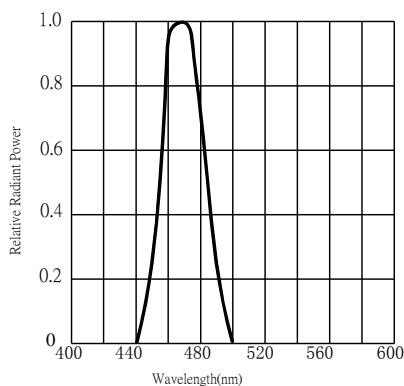


Fig.5 Relative Radiant Power vs.Wavelength

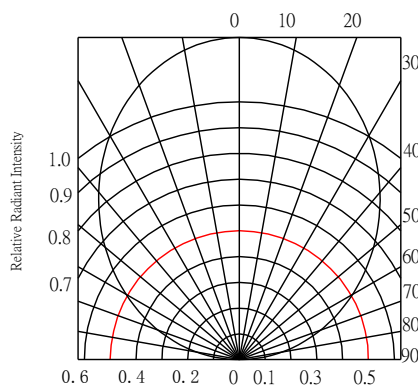


Fig.6 Relative Radiant Intensity vs.Angular Displacement

■ **Typical Electrical / Optical / Characteristics Curves**

SUR

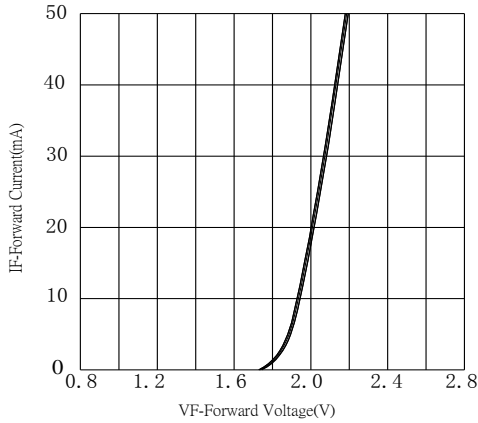


Fig.1 Forward Current vs.Forward Voltage

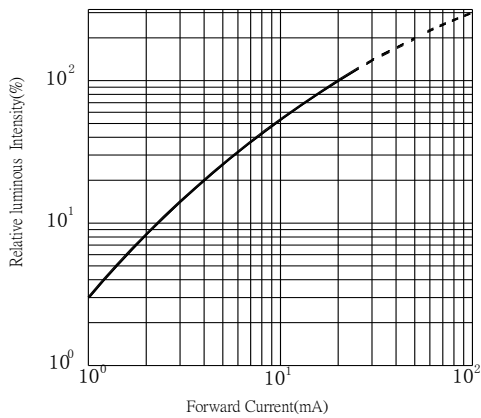
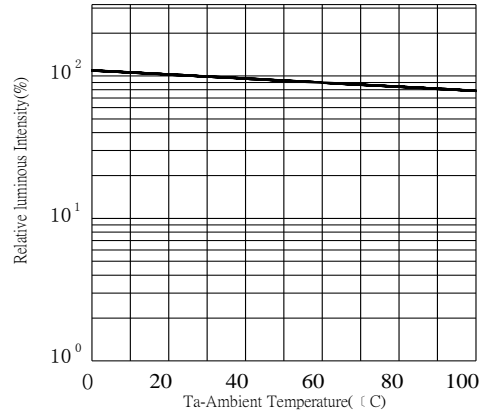


Fig.3 Relative luminous Intensity vs.Forward Current

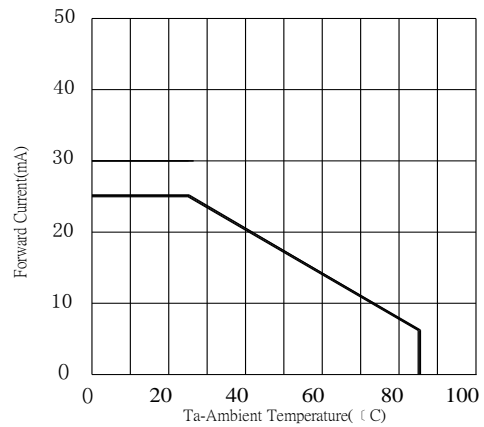


Fig.4 Forward Current vs.Ambient Temperature

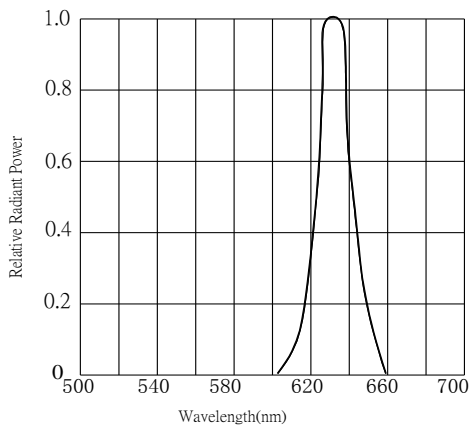


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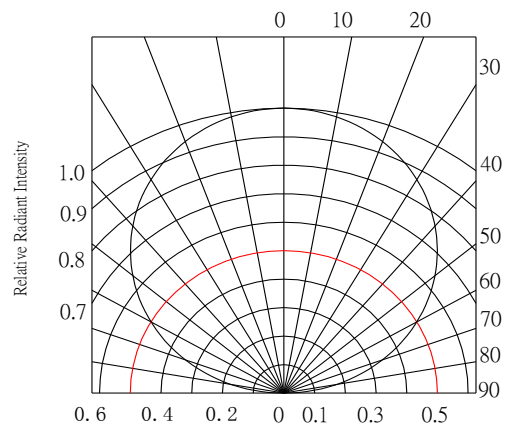


Fig.6 Relative Radiant Intensity vs.Angular Displacement

■ Typical Electrical / Optical / Characteristics Curves

SUG

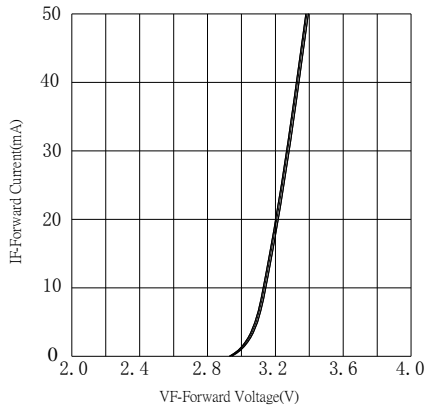


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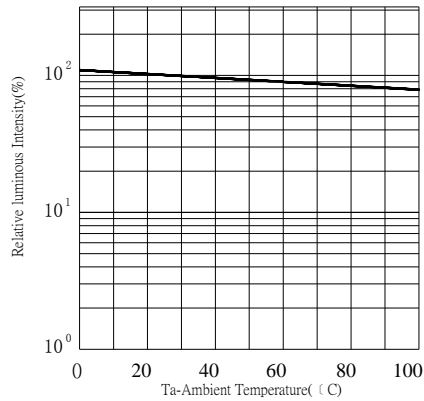


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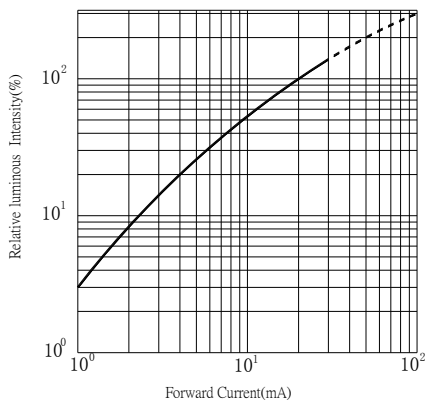


Fig.3 Relative luminous Intensity vs.Forward Current

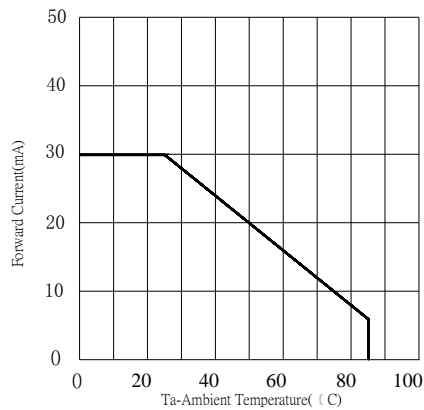


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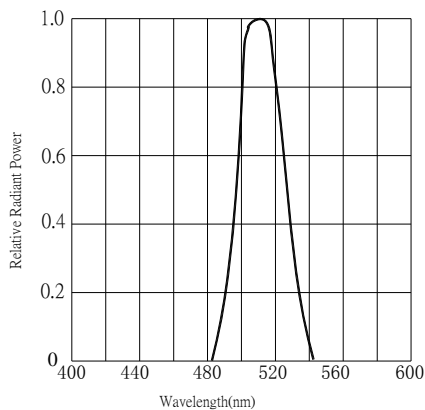


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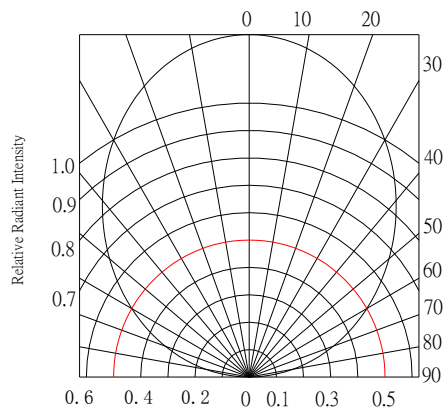


Fig.6 Relative Radiant Intensity vs.Angular Displacement

■ Reflow Soldering Curves