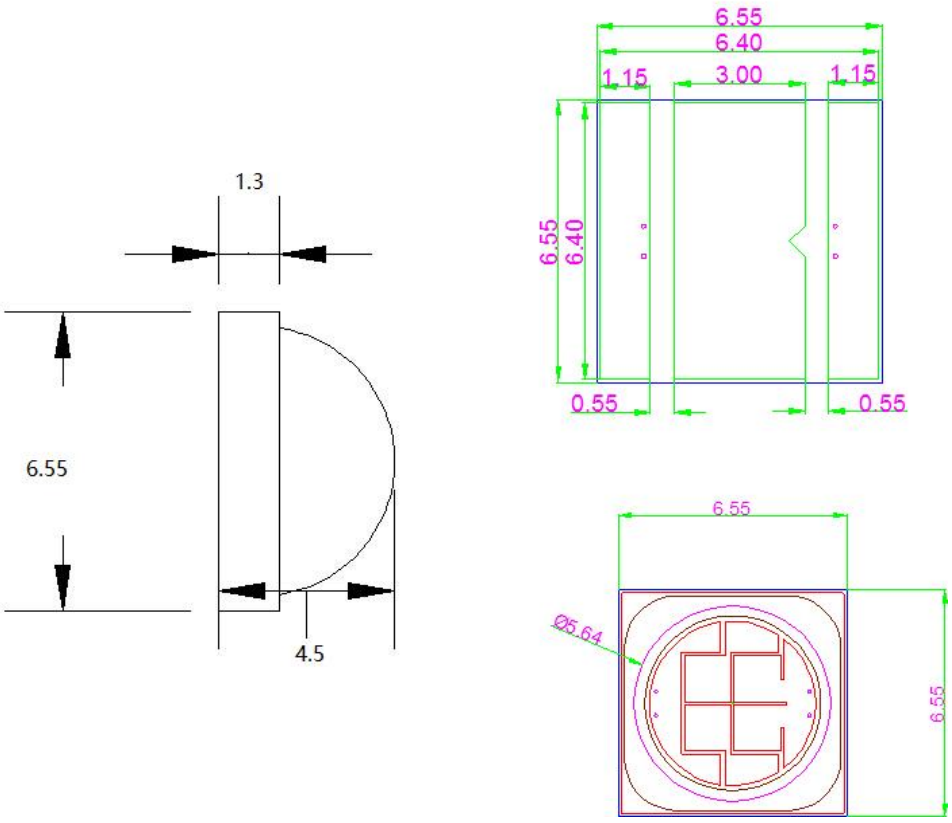
Shenzhen YM Technology Co., Ltd.

Parameter：

Item	6565 SMD Chip-Q-LG
Power	10W
Emitting color	UV
Diode type	6565 smd
Lens Material of Diode	quartz
View Angle of the Lens	60 degree
size	6.5mm*6.5mm
Wavelength	365nm
Voltage	6.5-7.5V
Curent	1-1.5A
Chip Material	LG
Lifespan (hours)	15000
Warranty	1 year
Application	Apply in various UV printing industries, painting, UV lnk,and UV glue.
Place of Origin	Shenzhen, Guangdong, China

Package Dimension



Notes

1. All dimensions are in millimeter. And tolerance is ± 0.3mm unless otherwise noted.
2. Lead spacing in measured where the lead emerge from the package.
3. Prodruded resin under flange is 1.5mm max.
4. Specifications are subject to change without notice.
5. Driving LED without heat sinking device is forbidden.
6. It is strongly recommended that the temperature of lead be not higher than 55oC.
7. Proper current derating must be observed to maintain junction temperature below the maximum.
8. LEDs are not designed to be driven in reserve bias.

Flux Characteristics at 1200mA, TJ = 25°C

Color	Radiometric Power (mW)		Radiation Pattern
	Minimal	Maximum	
UV	3500	4500	Lambertian

Optical Characteristics at 1200mA, TJ = 25°C (1)

Peak Wavelength λp				Spectral Half-width (nm) Δ λ 1/2	Temperature Coefficient / Dominant Wavelength Δ λ D/ ΔTJ (nm/ °C)
Color	Min.	Typ.	Max.		
UV	365		370		-

● MaxLite maintains a tolerance of ± 1nm for peak wavelength measurements.

Optical Characteristics at 1200mA, TJ = 25°C (2)

Color	Radiation Pattern	Total Included Angle θ 0.90V (degrees)	Viewing Angle 2 θ1/2 (degrees)	Typical Candela on Axis (cd)
UV	Lambertian	90	75	-

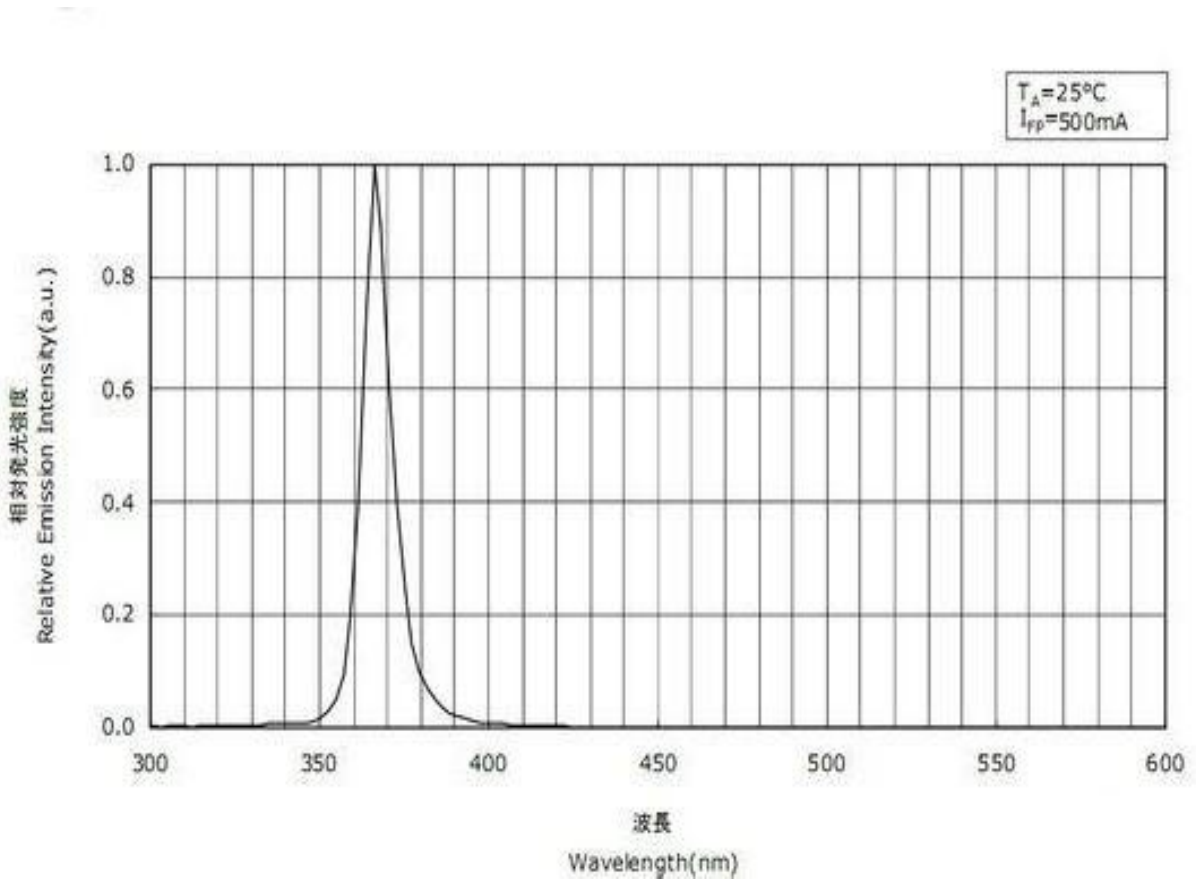
Electrical Characteristics at 1200mA, TJ = 25°C

Forward Voltage VF (V)				Dynamic Resistance (Ω)	Temperature Coefficient Of VF (mV/ ℃) Δ VF/ ΔTJ	Thermal Resistance Junction to Slug (℃/W)
Color	Min.		Max.			
UV	6 .5	-	7.5	1.0	**-2**	**10**

Absolute Maximum Rating at Temperature=25

Parameter	Maximum Rating
Power Dissipation	10W
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	2000mA
Continuous Forward Current	1200mA
Derating Linear From 30℃	0.5mA/℃
Reverse Voltage	5V
Operating Temperature Range	-20℃to + 80℃
Storage Temperature Range	-30℃to + 100℃
Lead Soldering Temperature [1.6mm(.063") From Body]	350℃ for 5 Seconds

UV Color Spectrum



Forward Current Characteristics, Tj=25℃

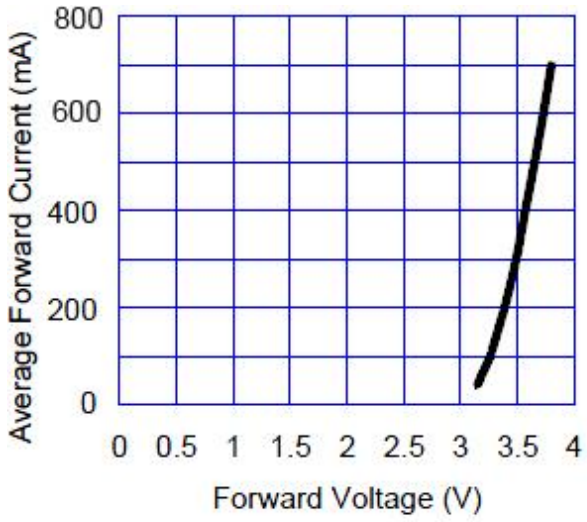


Fig 1. Forward Current vs. Forward Voltage

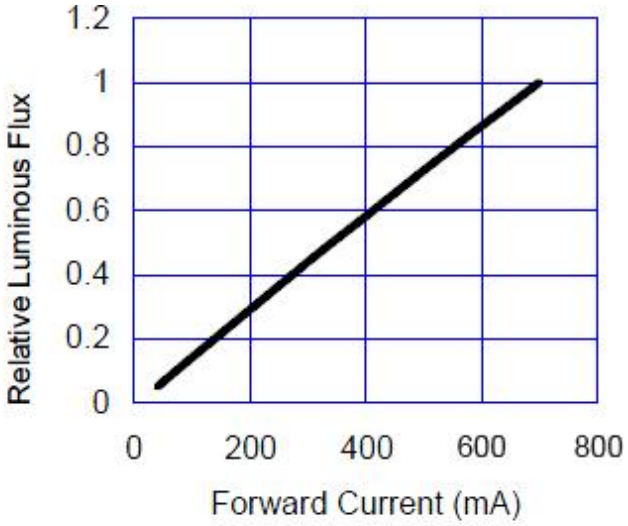
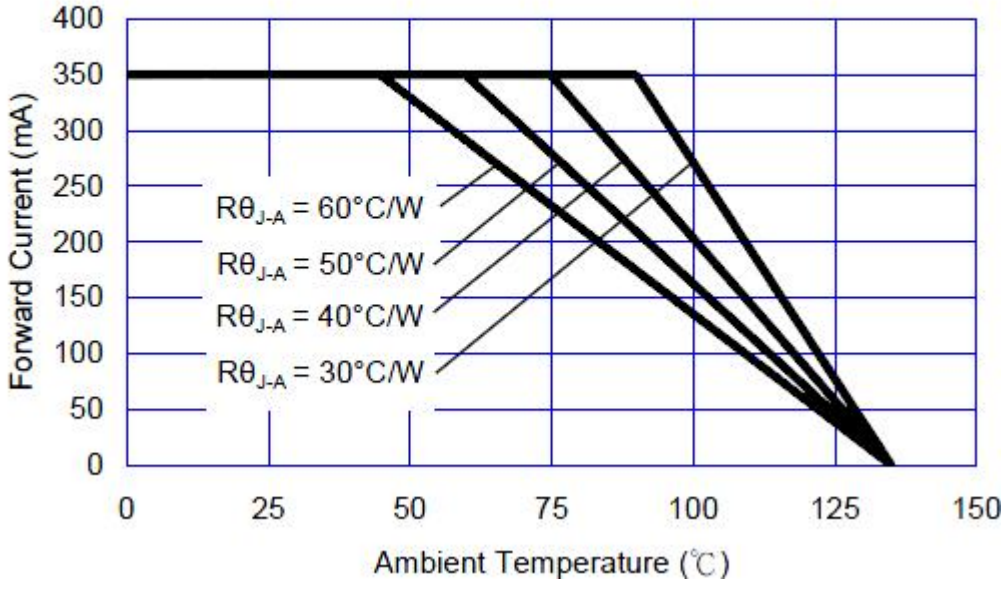


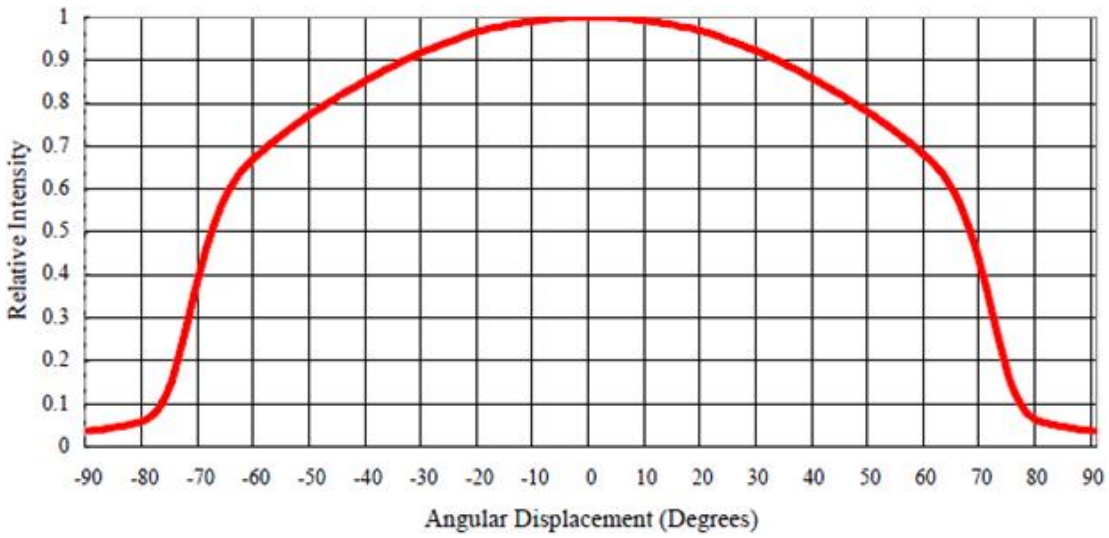
Fig 2. Relative Luminous Flux vs. Forward Current at Tj=25℃ maintained.

Ambient Temperature vs. Maximum Forward Current

UV (T_{JMAX} = 135°C)



Typical Representative Spatial Radiation Pattern



Precaution for Use

- Storage
  Please do not open the moisture barrier bag (MBB) more than one week. This may cause the leads of LED discoloration. We recommend storing MaxLite's LEDs in a dry box after opening the MBB. The recommended storage conditions are temperature 5 to 30℃ and humidity less than 40% RH. It is also recommended to return the LEDs to the MBB and to reseal the MBB.
- The slug is is not electrically neutral. Therefore, we recommend to isolate the heat sink.
- The slug is to be soldered. If not, please use the heat conductive adhesive.
- Any mechanical force or any excess vibration shall not be accepted to apply during cooling process to normal temperature after soldering.
- Please avoid rapid cooling after soldering.
- Components should not be mounted on warped direction of PCB.
- Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable, a heat plate should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.
- This device should not be used in any type of fluid such as water, oil, organic solvent and etc. When cleaning is required, isopropyl alcohol should be used.
- When the LEDs are illuminating, operating current should be decide after considering the package maximum temperature.
- The appearance and specifications of the product may be modified for improvement without notice.

Handling of Silicone Lens LEDs

Notes for handling of silicone lens LEDs

- Please do not use a force of over 3kgf impact or pressure on the silicone lens, otherwise it will cause a catastrophic failure.
- Avoid touching the silicone lens especially by sharp tools such as Tweezers.
- Avoid leaving fingerprints on the silicone lens.
- Please store the LEDs away from dusty areas or seal the product against dust.
- When populating boards in SMT production, there are basically no restrictions regarding the form of the pick and place nozzle, except that mechanical pressure on the silicone lens must be prevented.
- Please do not mold over the silicone lens with another resin. (epoxy, urethane, etc)