



SAMPLE APPROVE SHEET

Customer Name:							
Product	t model : F	5 TYPE					
		CL-5019SGW1C-003-CA-05					
Issue	Date :	2022-11-25					

	С	Water Transparent			
Lens Color	Т	Colored Transparent			
Code	D	White Diffused			
	Е	Colored Diffused			

Customer confirmation	Checked by	Prepared by		







Aatures

- Long operating life
- Highest flux
- Wide range of colors:2500K-25000K
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection
- Eutectic die band
- RoHS compliant

Applications

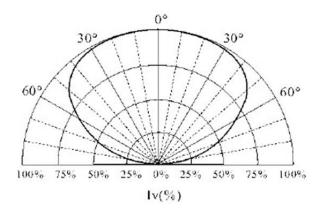
- Reading lights (car, bus, aircraft)
- LCD Backlights/light Guides
- Fiber optic alternative/ Decorative / Entertainment
- Mini-accent/Up lighters/Down lighters/ Orientation
- Indoor/Outdoor commercial and Residential Architectural
- Cove/Under shelf/Task
- Bollards/Security/Garden
- Portable (flashlight, bicycle)
- Edge-lit signs (Exit, point of sale)
- Automotive Exit (Stop-Tail-Turn, CHMSL,

Mirror Side Repeat)

Traffic signaling / Beacons / RailCrossing

and Wayside

Radiation Pattern







Typical Optical/ Electrical Characteristics @TJ=25℃

,									
Itom	Symbol		Red			Green			
Item		Condition	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	IF=20mA	1.8		2.4	1.8		2.3	V
Reverse Current	lR	VR=5v			5			5	μΑ
50% Power Angle	201/2	IF=20mA		60			60		deg
Luminous Intensity	φν	IF=20mA	40		80	20		60	mcd
Recommend Forward Current	lF	IF=20mA		20			20		mA
Chromaticity	& λ d)	IF=20mA	630		640	565		575	nm
Junction temperature	TJ	IF=20mA		125			125		$^{\circ}$
Thermal Resistance,Junction to Case	RJP	IF=20mA		8			8		°C/W

Notes:1.Tolerance of measurement of forward voltage±0.1V.

- 2. Tolerance of measurement of peak Wavelength±2.0nm.
- 3. Tolerance of measurement of luminous intensity ±5%.

Absolute **Maximum Rating**

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Item	Symbol	Absolute(Red)Maxi	Absolute(Green)	Unit			
		mumRating	Maximum Rating				
Forward Current	IF	20	20	mA			
Peak Forward	IFP	30	30	mA			
Current*							
Reverse Voltage	VR	5	5	V			
Power Dissipation	PD	60	100	mW			
OperationTemperature	TOPR	-40~+80	-40~+80	$^{\circ}\!\mathbb{C}$			
Storage Temperature	TSTG	-40~+100	-40~+100	$^{\circ}$			
Lead Soldering	TCOL	Max. 260℃ for 3sec Max.					
Temperature*	TSOL						

^{*}IFP Conditions: Pulse Width≤10msec duty≤1/10

^{*} All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

^{*}Re-flow,wave peak and soak-stannum soldering etc.is not suitable for this products.

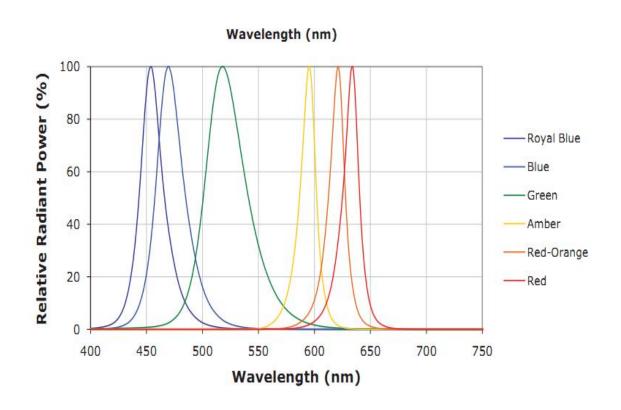
^{*}Suggest to solder it by professional high power LED soldering machine.

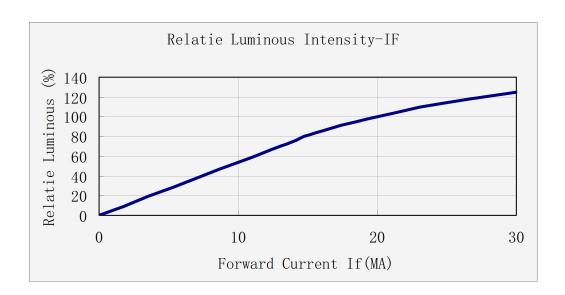
^{*}Can use invariable-temperatur e searing-iron with soldering condition :≤260 degree less than 3 seconds.





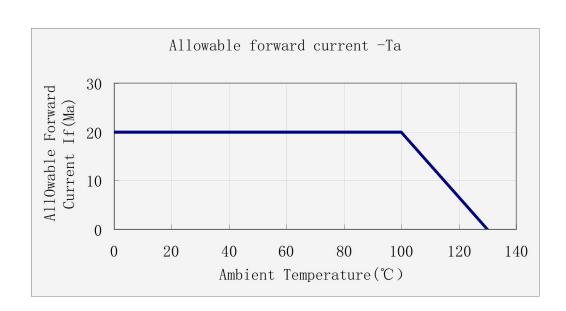
Wavelength Characteristics

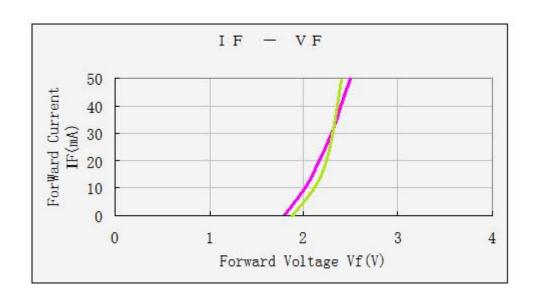






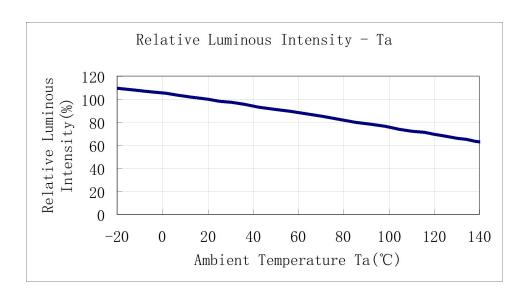




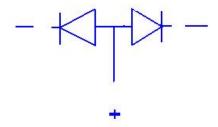






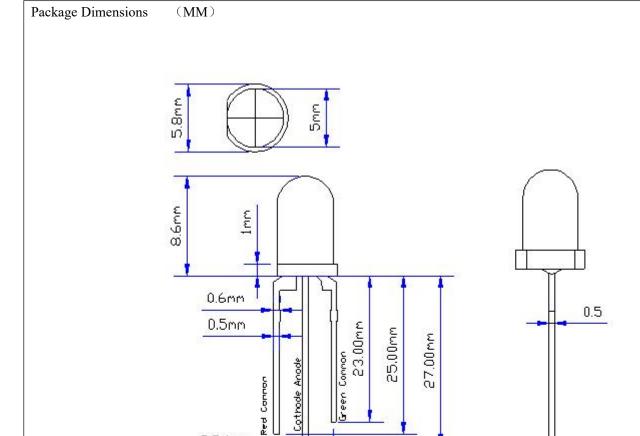


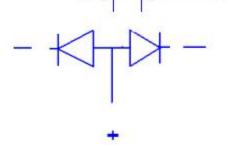
The connection method of chips :











2.54mm

- Notes: 1. All dimension units are millimeters.
 - 2. All dimension tolerance is ±0.2mm unless otherwise noted.

2.54mm

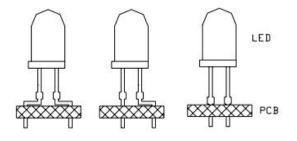
3. The brass column of heat sink of the high power LED is Anode. Please pay more attention to the necessary installation, when installing The heat dissipate on equipments and connecting the electric circuit in avoid of short circuit and destroying



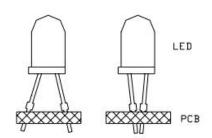


Package Adhesive Pipe (units:mm) Note:

- LED bracket forming method: The pin of LED canbe bent where is at least 2mm out of LED colloid; Finishing the forming of LED bracket must be before soldering; Guarantee the gap between two pin of LED tallys with LED pads in PCB when forming;
- 2 Manual soldering: The tip temperature of soldering iron don't exceed 300°C; soldering time don't exceed 3s and soldering position must be 3mm out of led colloid;
- 3 Static electricity and high volt can damage LED, The production whose Die material is InGaN must strictly required ESD, Must put on static glove and static fillet, soldering tool and the cover of device must connect the ground, soldering condition follows the related stating of production specification manual.
- 4 Protecting countermeasure when over current: Need add the protecting resistor in circuit in order to avoid damaging led due to big current and voltage fluctuation
- 5 LED installation method: LED can be stored for a year under the condition, the temperture of 5°C~35°C and humidity of RH60%, These production must be re-inspected and tested before use if their storage time exceed a year.
- 6 If LED is exposed in air for a week under the condition, the temperature of 5 $^{\circ}$ C $^{\circ}$ 35 $^{\circ}$ C, humidity of RH60%, must place the LED in the ambience of 65 $^{\circ}$ C \pm 5 $^{\circ}$ C for 24 hours.







错误方式