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DATASHEET

Product	LED
Model	S-5443GW28
Lens Color	Muddy
Source Color	Green
Date	14.03.2017
Version	1.0

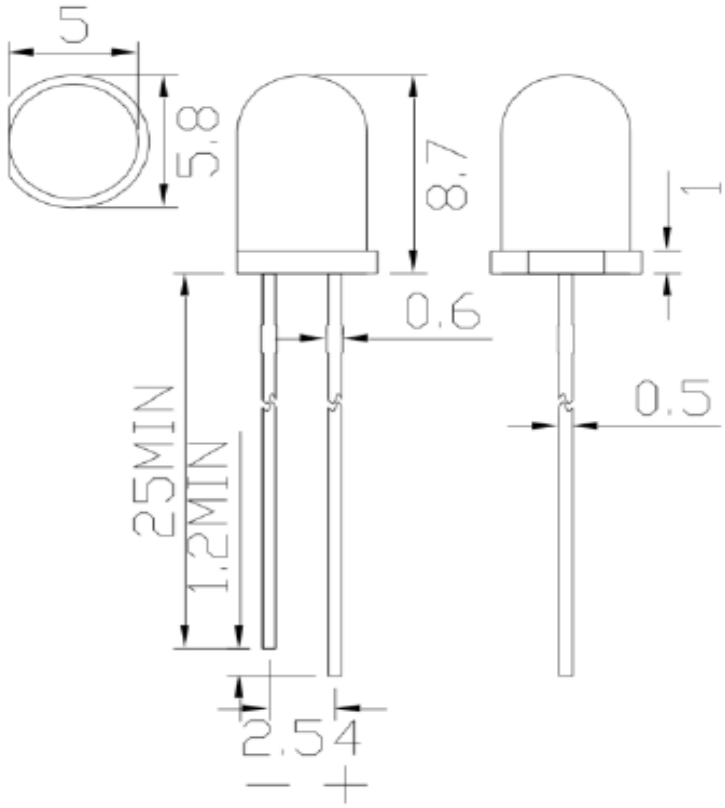
FOR REFERENCE ONLY

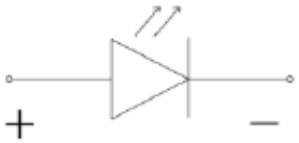
Aplications:

1) Traffic lights
2) Backlighting
3) Marker lights
4) Substitution of micro incandescent lamp
5) Interior and exterior automotive lighting

Apperance:

Dimmensions:





Notes:

1. All dimensions are in millimeters.
2. Tolerance is ±0.20mm unless otherwise noted.
3. Protruded resin under flange is 1.0mm max
4. Lead spacing is measured where the leads emerge from the package.
5. Caution in ESD: Static Electricity and surge damages the LED. lt is recommend to use a wrist band or anti-electrostatic glove when handling the LED.
All devices, equipment and machinery must be properly grounded.

Absolute Maximum Ratings at Ta=25℃

Items	Symbol	MAX.	Unit
Power Dissipation	P_D	100	mW
Peak Forward Current	I_{FP}	60	mA
Continuous Forward Current	I_F	30	mA
Operating Temperature	T_{opr}	-40~ +85	°C
Storage Temperature	T_{stg}	-40~ +85	°C
Lead Soldering Temperature	T_{sld}	+260 for 5 seconds	°C

Electrical / Optical Characteristics at Ta=25℃ (If=20mA only)

Items	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	IV	5000	-	9000	mcd	If=20mA
Viewing Angle	2θ1/2	-	20	-	Deg	If=20mA
Dominant Wavelength	λd	505	-	510	nm	If=20mA
Forward Voltage	VF	2,8	-	3,4	V	If=20mA
Reverse Current	IR	---	---	5	μA	VR=5V

Notice:

1) Nominal is 10mA.

2) Recommended forward current is 10mA, the lifespan more 2 years. More than 10mA, lifespan will be reduced.

3) The tolerance of intensity:±15%, The tolerance of wave length:±1nm,The tolerance of forwards voltage: ±0.05V. Only reference for above data when testing.

4) The parameters of "Forward Voltage" have not relation with parameters of "Luminous Intensity", "Viewing Angle" and "Dominant Wavelength". Specified parameters of the voltage is independent of them.

Typical Electrical / Optical Characteristics Curves

at Ta=25℃ Unless Otherwise Noted

Figure №1

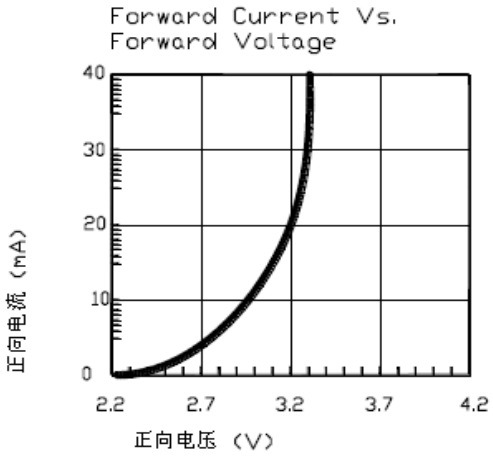


Figure №2

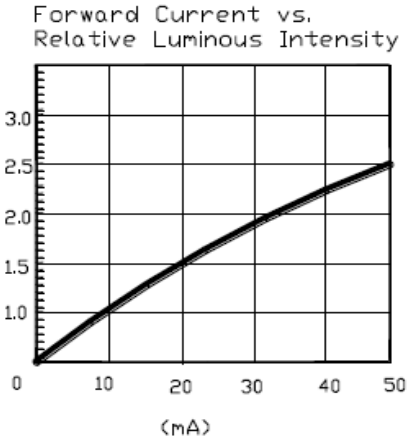


Figure №3

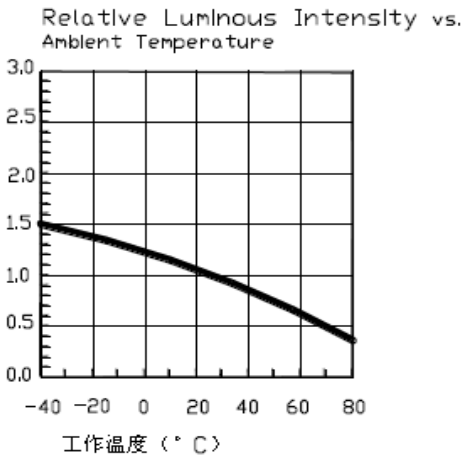


Figure №4

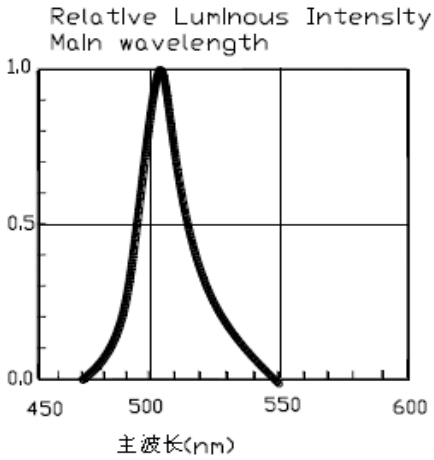


Figure №5

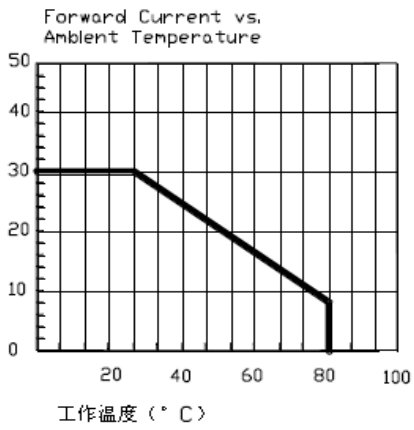
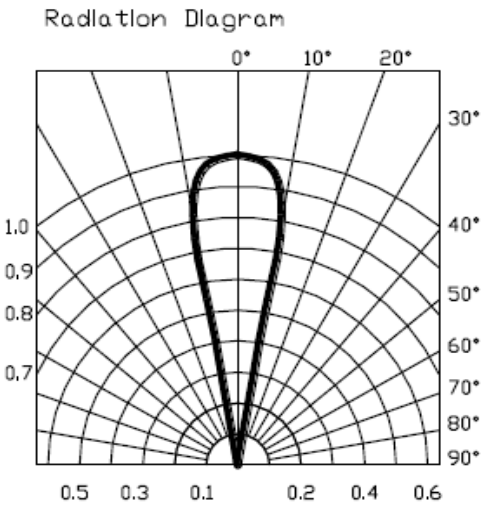


Figure №6



Explanation:

№2 figure: Different current has different percent of brightness**.** 1.0 is nominal - 10mA.

№3 figure: When LED in non-operating state, the luminous intensity changes due to the ambient temperature.

№5 figure: The higher ambient temperature, the lower operating current.