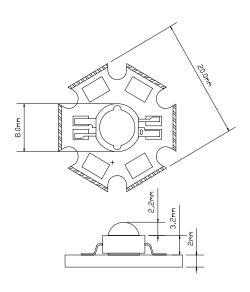


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Package Dimensions



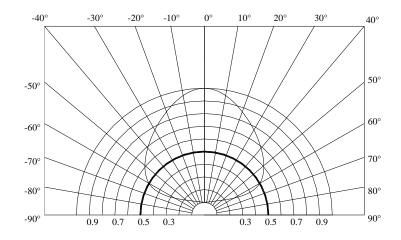
Materal' s Pictcure



Notes

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(0.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(0.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

Spatial Distribution



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Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Red	Green	Blue	Unit	Test Condition
Luminous Intensity	Φ	50	80	20	lm	IF =350mA
Viewing Angle	2 θ 1/2	120	120	120	deg	IF =350mA
Spectral Line Half-Width	Δλ	625	525	465	nm	IF =350mA
Forward Voltage	VF	2.50	3.60	3.60	V	IF =350mA
Reverse Current	IR	20	20	20	μА	VR = 5V

Absolute Maximum Ratings at TA=25℃

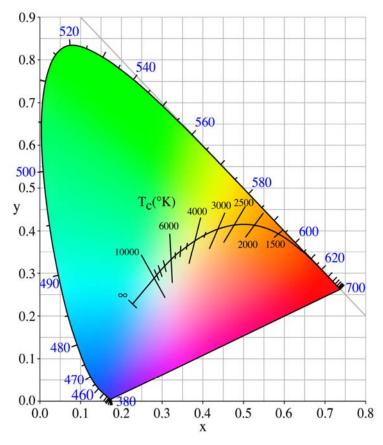
Parameter	Maximum Rating
Power Dissipation	3W
Peak Forward Current	
(1/10 Duty Cycle, 0.1ms Pulse Width)	1000-2000mA
Continuous Forward Current	350-700mA
Derating Linear From 30°C	0.8mA/℃
Reverse Voltage	5V
Operating Temperature Range	-20°C to + 80°C
Storage Temperature Range	-30°C to + 100°C
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds

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Remarks

- 1. H602S has ESD protection but customers must not use in reverse condition.
- 2. All the data or technical arguments represent a statistical calculation due to manufacturing process. Those do no correlated to actual parameter of each product line. And all the data may
- 3. Brightness groups are tested at current pulse duration of 100 ms and a tolerance of \pm 15%.
- 4. Chromaticity coordinates groups are tested under pulse duration 100ms.
- 5. Forward voltage are at condition of pulse of 100ms and tolerance of \pm 0.1V.
- 6. LED's lifetime will be effected if the heat generated during operation does not dissipate efficiently. So the good thermal management must be implemented seriously.
- 7. Do not open the bag until ready to use.
- 8. Storage temperature should be in 300C and humidity under then 90%.
- 9. When open the condition should be temperature under 300C and humidity under 70%
- 10. When bag open the devices should be use in 120 hours (5 days).
- 11. Planck Locus in chromaticity coordinates.

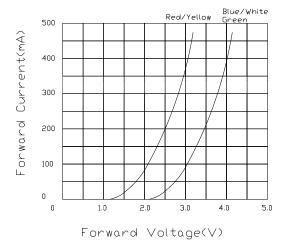


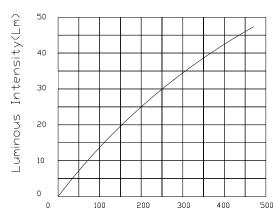
PART NUMBER	REV	PAGE	DATE
FD-9RGB-Y2	R101	3/4	2009-04-03



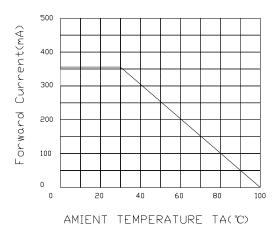
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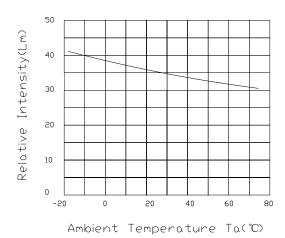
HIGH POWER LED Typical Electro-Optical Characteristics Curves

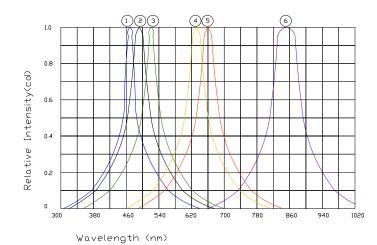












- 1) Blue Lamp(InGaN)
- White Lamp(InGaN)
- 3 Pure Green Lamp(InGaN)
- 4 Yellow Green Lamp(AlInGaP)
- Red Lamp(AlInGaP)
- 6 Infrared Lamp(850nm)

PART NUMBER	REV PAGE		DATE
FD-9RGB-Y2	R101	4/4	2009-04-03

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 $\frac{\text{Adafruit}}{\frac{2524}{}}$