

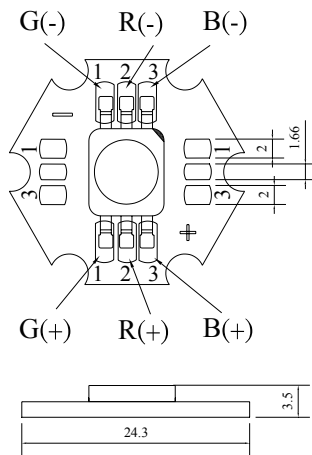
High Power LED

OS-83 Series

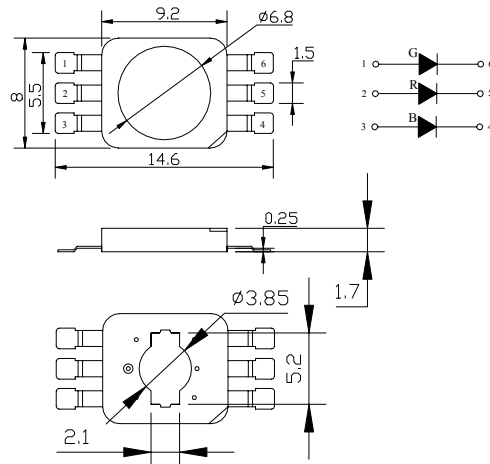
Features:

- Super High Luminance
- All chips can be individually driven to provide the required colour

OSW-8339



OSW-8349



Maximum Ratings at Ta=25°C

Reverse Voltage (<math><100\mu A</math>)	5.0V
D.C. Forward Current	350mA
Pulse Current ($t_p \leq 100\mu s$, duty cycle = 0.005)*1	1000mA
Operating Temperature Range	-40 to +75°C
Storage Temperature Range	-40 to +105°C
Soldering Temperature Reflow Soldering	260°C for 10 secs
Soldering Temperature Hand Soldering	350°C for 3 secs
Power Dissipation Red	1W
Power Dissipation Green / Blue	1.3W

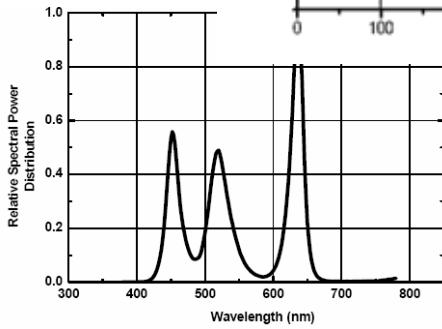
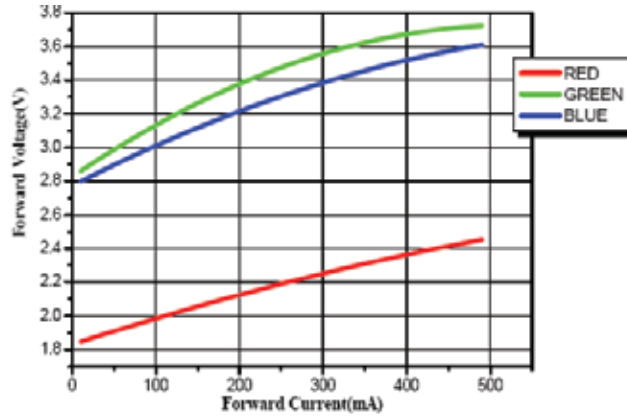
Electrical & Optical Characteristics at Ta=25°C

Ant Part No.	LED Chip		Lens Colour	Dominant Wavelength (nm) at 350mA		Luminous Flux (lm) at 350mA		Forward Voltage (V) at 350mA		Viewing Angle 2 $\theta^{1/2}$ (deg)	Thermal Resistance Junction to Board (°C/W)
	Material	Emitted Colour		min.	max.	min.	max.	min.	max.		
OSW-8349	A1GaInP/Si	Red	Water Clear	620	630	18	30.5	1.8	2.8	120	15
	InGaN / Sapphire	True Green	Water Clear	520	535	30.5	50	3.0	4.0	120	15
	InGaN / Al ₂ O ₃	Blue	Water Clear	460	475	10.7	13.9	3.0	4.0	120	15
OSW-8339	A1GaInP/Si	Red	Water Clear	620	630	18	30.5	1.8	2.8	120	15
	InGaN / Sapphire	True Green	Water Clear	520	535	30.5	50	3.0	4.0	120	15
	InGaN / Al ₂ O ₃	Blue	Water Clear	460	475	10.7	13.9	3.0	4.0	120	15

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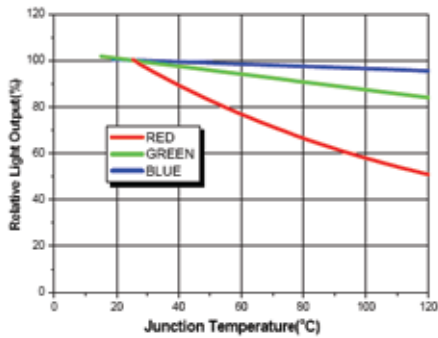
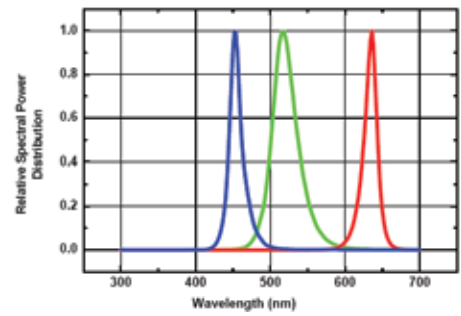
High Power LED

Forward Voltage Vs Forward Current(Ta=25°C)



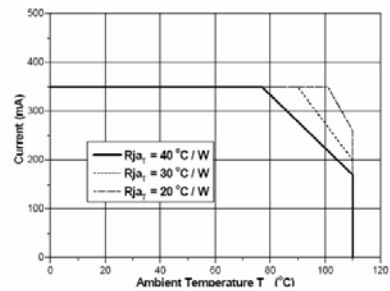
White LED Spectral Power Distribution (Ta=25°C)

Wavelength Curve for Red, Green, Blue (Ta=25°C)



Relative Light Output vs. Junction Temperature (°C)

Ambient Temperature vs. Allowable Forward Current for 1 chip for White, Blue, Green, Red (Ta=25°C)



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