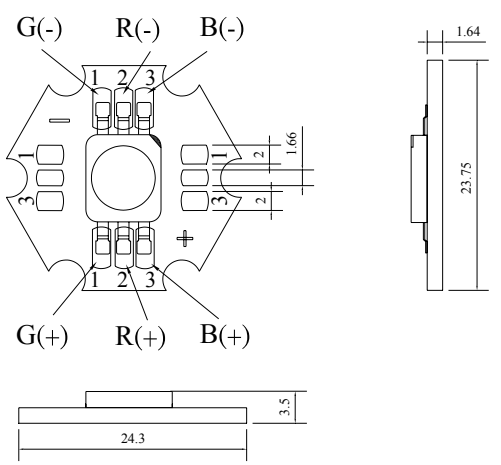
High Power LED

OS-83 Series

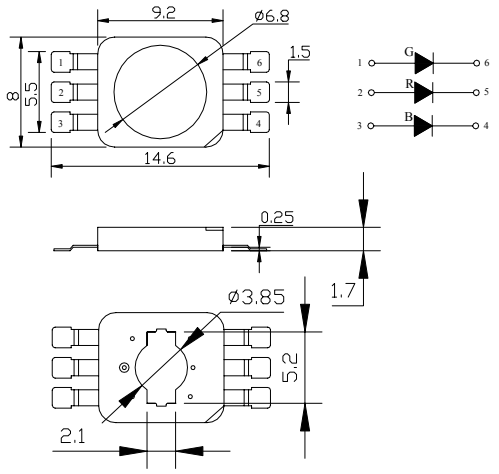
Features:

- 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 (<100μA) 5.0V
D.C. Forward Current 350mA
Pulse Current (tp ⩽ 100μs, 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 (1m) 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 / $A1_2O_3$	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 / $A1_2O_3$	Blue	Water Clear	460	475	10.7	13.9	3.0	4.0	120	15

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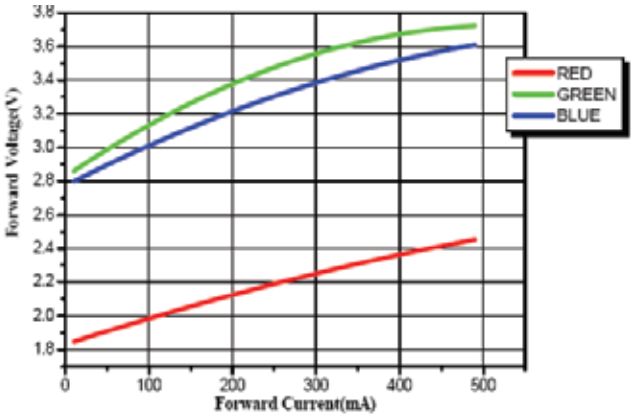
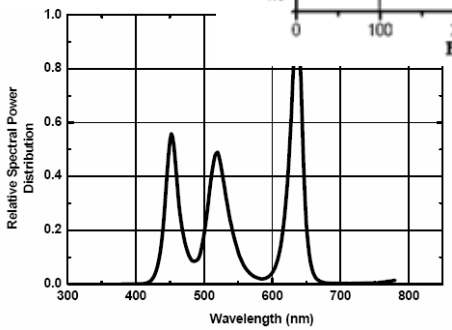
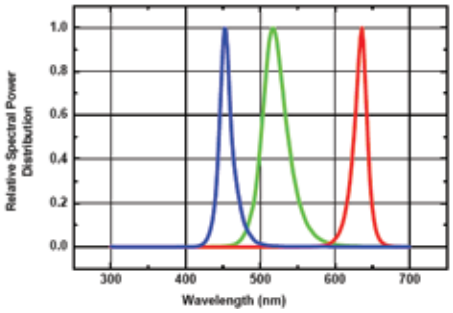
Forward Voltage Vs Forward Current(Ta=25°C)

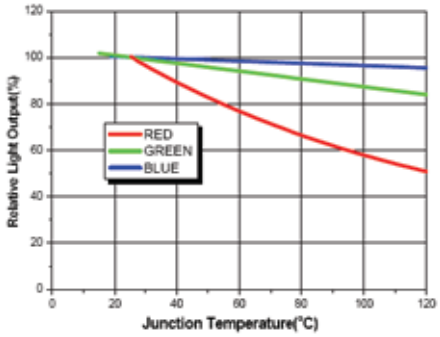




ıite(Ta=25°C)

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





vs. Relative Light Output
:5°C)

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