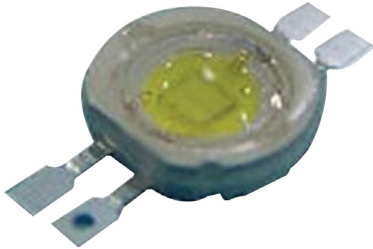


# High Power LED



## Features:

- 3W High Luminous LED
- Excellent Heat Transfer

## Maximum Ratings at Ta=25°C

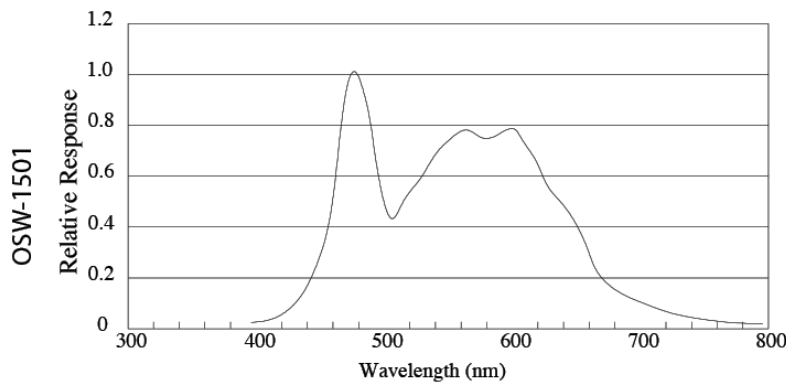
Reverse Voltage (<100µA)	: 5V
D.C. Forward Current	: 700mA
Pulse Current (tp <100µS, duty cycle = 0.005)*1	: 1,000mA
Operating Temperature Range	: -40°C to +75°C
Storage Temperature Range	: -40°C to +105°C
Soldering Temperature Reflow Soldering	: 260°C for 10 secs
Soldering Temperature Hand Soldering	: 350°C for 3 secs

## Electrical & Optical Characteristics at Ta = 25°C

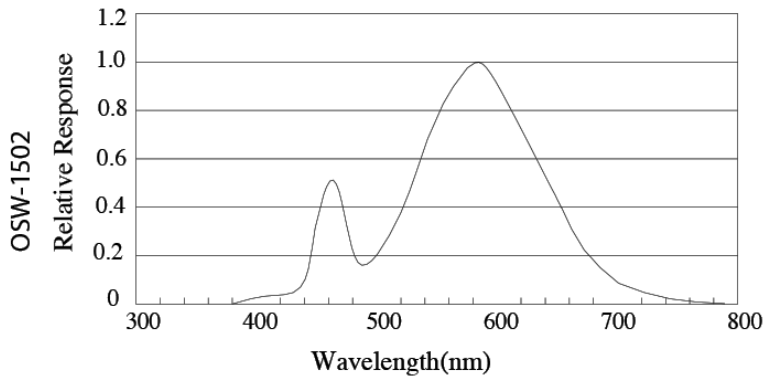
LED Chip	Lens Colour	Correlated Colour Temperature ( K )			Luminous Flux (1m) at 1,500mA			Forward Voltage (V) at 1,500mA		Viewing Angle 2θ <sup>1/2</sup> (deg)	Thermal Resistance Junction to Case (°C/W)	Reverse Current (µA)	Temp Co-Efficient of Forward Voltage (mV/°C)
		min.	typ.	max.	min.	typ.	max.	min.	max.				
White	Water Clear	5,000	6,500	9,000	147	200	323	2.7	4.25	120	10	50	-2
Warm White		2,700	3,200	3,700	113	150	248						

## Typical Electrical/Optical Characteristic Curves

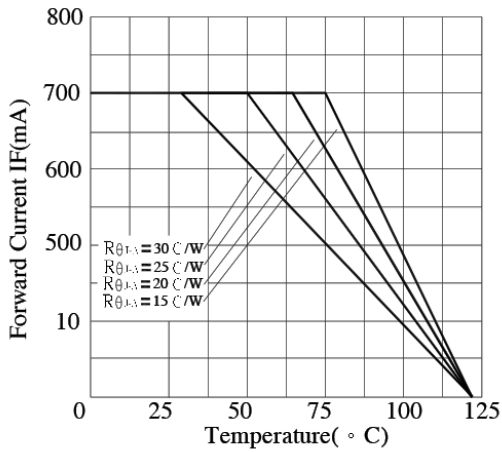
(25 Ambient Temperature Unless Otherwise Noted)



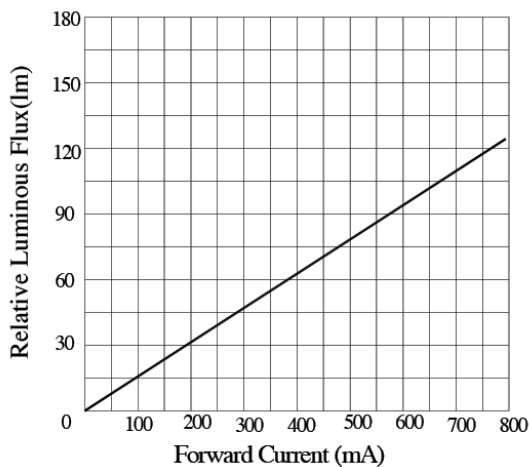
# High Power LED



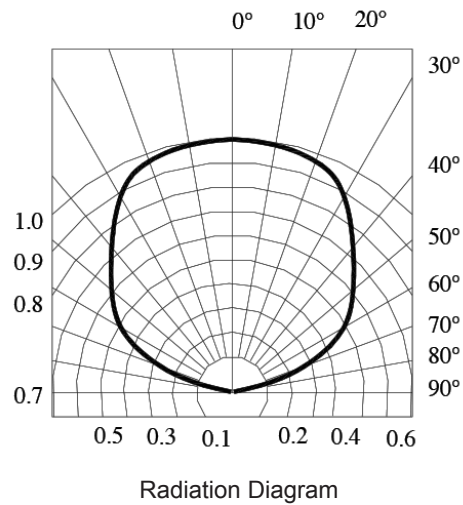
## Diagrams:



Ambient Temperature Vs. Forward Current



Forward Current Vs. Luminous Flux



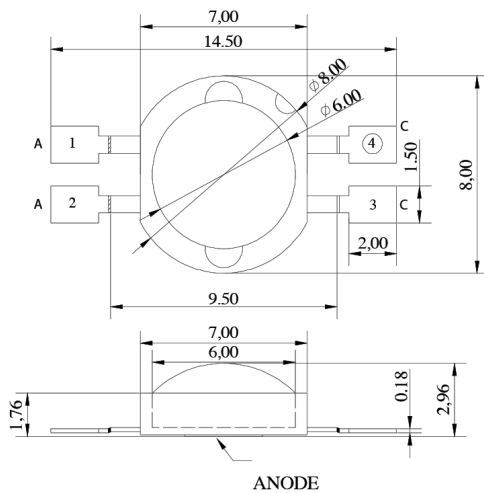
Radiation Diagram



# High Power LED



## OSW-13 Series



Dimensions : Millimetres

### Part Number Table

Description	Part Number
LED 5W Hi Power SMD White	OSW-1501
LED 5W Rnd Hi Power SMD Warm White	OSW-1502

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