### **LED Super Bright SMD**

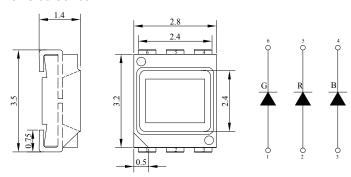




#### Features:

- RGB LED lamp
- · Low Profile Package
- All chips can be individually driven to provide required colours

#### **OVS 33 Series**



Dimensions: Millimetres

### Maximum Ratings at Ta = 25°C

Reverse Voltage (<100µA) : 5V D.C. Forward Current : 30mA Pulse Current (Pulse Width od 0.1ms, 1/10 Duty Cycle) : 100mA

: -25°C to +85°C Operating Temperature Range Storage Temperature Range : -40°C to +100°C : 260°C for 10 secs

Soldering Temperature Reflow Soldering

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

LED Chip			Lens Colour	Dominant Wavelength (nm) at	Luminous Intensity (mcd) at 20mA		Forward Voltage (V) at 20mA		Viewing Angle 2 e ½
Material	Emitted Colour	Brightness		20mA	Min.	Тур.	Тур.	Max.	(deg)
InGaN / Sapphire	Blue			470	45	100	3.5	4.2	
InGaN / Sapphire	True Green	Mega	Water Clear	520	200	470	3.2	4.2	120
A1GaInP/Si	Red			625	244	450	2.1	2.6	

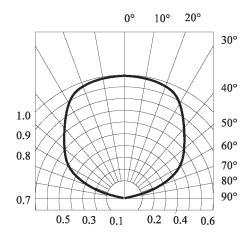
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#### Radiation Diagram(s)



#### **Storage**

Recommended storage environment Temperature : 5°C to 30°C (41°F to 86°F)

Humidity: 60% RH Max.

Use within 7 days after opening of sealed vapor/ESD barrier bags. If unused LEDs remain, they should be stored in moisture proof packages, such as sealed container with packages of moisture absorbent material (silica gel). It is also recommended to return the LEDs to the original moisture proof bag and to reseal the moisture proof bag again. Fold the opened bag firmly and keep in dry environment.

#### Soldering

	Hand Soldering				
	Lead Solder	Lead - Free Solder			
Pre-heat	120°C to 150°C	180°C to 200°C	Temperature	350°C Max.	
Pre-heat time	120 sec. Max.	120 sec. Max.		3 sec. Max.	
Peak temperature	240°C Max.	260°C Max.	Caldaring time		
Soldering time 10 sec. Max.		10 sec. Max.	Soldering time	(one time only)	
Condition	refer to Temperature - profile 1	refer to Temperature - profile 2			

<sup>\*</sup>After reflow soldering rapid cooling should be avoided [Temperature-profile (Surface of circuit board)]
Use the conditions shown to the under figure

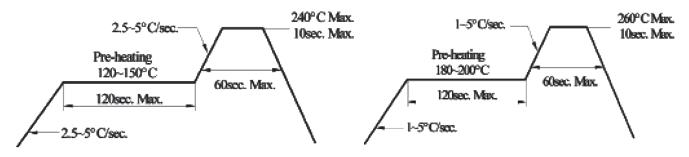


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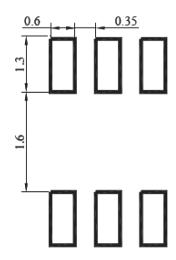
#### 1: Lead Solder

#### 2 : Lead-free Solder



Recommended Soldering Pad Design

Dimensions: Millimetres



#### **Part Number Table**

Description	Part Number		
LED 3.2mm × 2.8mm × 1.4mm SMD RGB	OVS-3309		

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