

High Power Super Flux LED



Features:

- High Luminance
- High Operating Temperature
- Industry Standard 7.62mm Square Package

Specifications:

Maximum Ratings at Ta=25°C

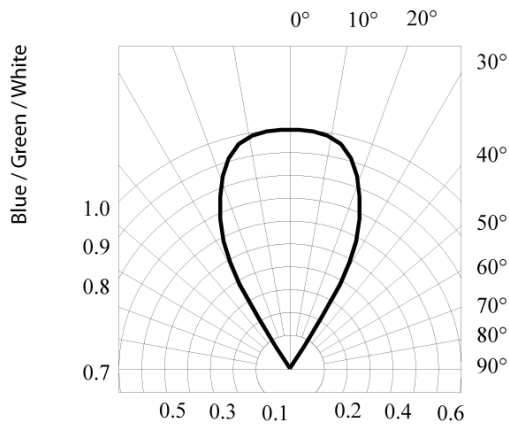
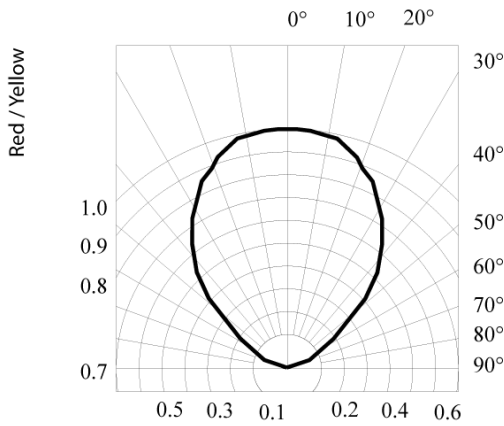
- Reverse Voltage (<100µA) : 5V
- D.C. Forward Current : 30mA
- Pulse Current (Pulse Width of 0.1ms, 1/10 Duty Cycle) : 100mA
- Operating Temperature Range : -40°C to +100°C
- Storage Temperature Range : -40°C to +100°C
- Soldering Temperature Dip Soldering : 260°C for 5 secs
- Soldering Temperature Hand Soldering : 350°C for 3 secs

Electrical & Optical Characteristics at Ta=25°C

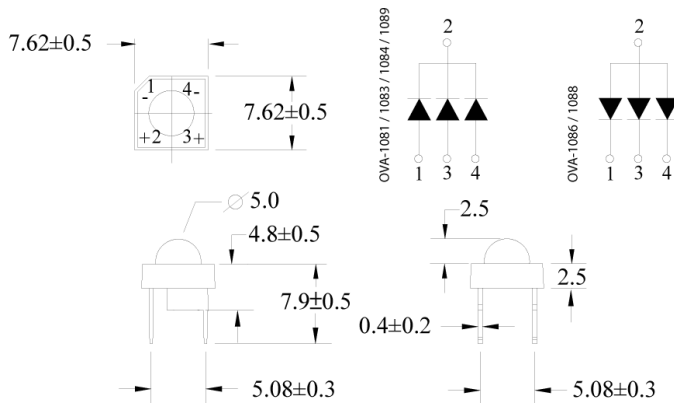
LED Chip			Lens Colour	Dominant Wavelength (nm) at 20mA	Luminous Intensity (mcd) at 20mA		Forward Voltage (V) at 20mA		Viewing Angle 2θ ^{1/2} (deg)	Part No.
Material	Emitted Colour	Brightness			Min.	Typ.	Typ.	Max.		
InGaN / Sapphire	Blue	Mega	Water Clear	465	700	1,500	3.2	4	60	OVA-1083
InGaN / Sapphire	True Green			520	2,700	4,500				
A1GaInP/Si	Red			625	1,400	2,700	2.1	2.6	90	OVA-1088
A1GaInP/Si	Yellow			589	1,000	2,200				

LED Chip			Lens Colour	Co-Ordinates for CIE Chromaticity at 20mA		Luminous Intensity (mcd) at 20mA		Forward Voltage (V) at 20mA		Viewing Angle 2θ ^{1/2} (deg)	Part No.
Material	Emitted Colour	Brightness		X Axis	Y Axis	Min.	typ.	typ.	Max.		
InGaN / Sapphire	White	Mega	Water Clear	0.31	0.3	2,750	8,500	3.2	4	60	OVA-1081

Radiation Diagrams



OVA-10 Series



Dimensions : Millimetres

Part Number Table

Description:	Part Number
LED, Superflux Large Dome, White	OVA-1081
LED, Superflux Large Dome, Blue	OVA-1083
LED, Superflux Large Dome, Green	OVA-1084
LED, Superflux Large Dome, Yellow	OVA-1086
LED, Superflux Large Dome, Red	OVA-1088

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