



PL011 Series 1.8mm LED

Features

- *1.8mm Round Dome Lens with Flange
- *InGaN Ultra Bright Blue LED Chip used
- *Color Diffused Lens
- *Wide Viewing Angle
- *Integrated Zener Diode for ESD Protection
- *High Intensity
- *Low Current Requirement
- *Reliable and Rugged
- *RoHS Compliant

Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

Power Dissipation.....	120mW
Reverse Voltage (<100 μ A).....	5.0V
Max Forward Current.....	30mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width).....	100mA
Operating Temperature Range.....	-25°C to +85°C
Storage Temperature Range.....	-40°C to +100°C
Soldering Temperature (1.6mm below body).....	260°C for 5 seconds
Electrostatic Discharge (ESD).....	6000V

Electrical & Optical Characteristics at $T_A = 25^\circ\text{C}$

Part Number	Emitting Color	Chip Material	Peak Wave Length	Dominant Wave Length	Viewing Angle 2 θ 1/2	Forward Voltage @20mA (V)		Luminous Intensity @20mA (mcd)	
						Typ	Max	Min	Typ
Color Diffused Lens			nm	nm	Deg				
PL011-CDB20Z	Blue	InGaN	—	465	55°	3.2	4.0	60.0	130.0

All dimensions are in **Millimeters**. Tolerance is $\pm 0.25\text{mm}$ unless otherwise specified. An epoxy meniscus may extend about 1 mm down the leads.

