

P-tec Corporation    Tel:(800)688-0613  
 2405 Commerce Circle    Tel:(719) 589 3122  
 Alamosa Co. 81101    Fax:(719) 589 3592  
 www.p-tec.net    sales@p-tec.net



## 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<sub>A</sub> = 25°C

Power Dissipation.....	120mW
Reverse Voltage (<100μA).....	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<sub>A</sub> = 25°C

Part Number	Emitting Color	Chip Material	Peak Wave Length	Dominant Wave Length	Viewing Angle 2θ ½	Forward Voltage @20mA (V)		Luminous Intensity @20mA (mcd)	
						Typ	Max	Min	Typ
PL011-CDB20Z	Blue	InGaN	nm	nm	Deg	3.2	4.0	60.0	130.0

All dimensions are in **Millimeters**. Tolerance is ± 0.25mm unless otherwise specified. An epoxy meniscus may extend about 1 mm down the leads.

