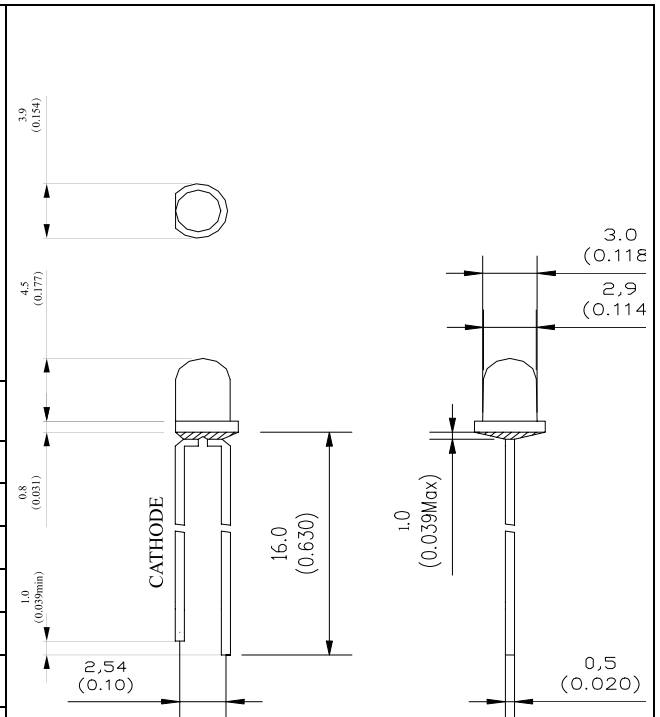


GNL-3012PD (Φ 3mm Photodiode) Black Lens packaged

ABSOLUTE MAXIMUM RATING:(Ta=25°C)

| Parameter | | | Unit |
|--|-----|-----|------|
| DC Forward Current | 30 | | mA |
| Reverse Voltage | 5 | | V |
| Reverse Current (Vr=5V) | 10 | | μA |
| Peak Forward Current ,tw ,=1 msec Duty ,=1/20 | 150 | | mA |
| Operation Temperature | -25 | +80 | °C |
| Storage Temperature | -40 | +85 | °C |
| Solder Dip Temperature (5 seconds,1.6mm from body) | 300 | ±5 | °C |



| Parameter | Symbol | Condition | Min. | Typ. | Max. | Units |
|--------------------------------|-----------------|--|-------|----------|-------|-------|
| Rang of Spectral Bandwidth | $\lambda_{0.5}$ | _____ | _____ | 840-1200 | _____ | nm |
| Wavelength of Peak Sensitivity | λ_p | _____ | _____ | 980 | _____ | nm |
| Open-Circuit Voltage | Voc | Ee=5m W/cm2 $\lambda_p = 940\text{nm}$ | _____ | 0.42 | _____ | V |
| Short-Circuit Current | Isc | Ee=5m W/cm2 $\lambda_p = 940\text{nm}$ | 30 | 2 | _____ | μ A |
| Reverse Light Current | IL | Ee=5m W/cm2 $\lambda_p = 940\text{nm}$ VR=5V | 30 | 2 | _____ | |
| Dark Current | ID | Ee=0 W/cm2 VR=10V | 5 | 10 | _____ | nA |
| Reverse Breakdown | BVR | Ee=0 W/cm2 IR=100 μ A | 32 | 170 | _____ | V |
| Total Capacitance | Ct | Ee=0 W/cm2 VR=3V F=1MHZ | _____ | 5 | _____ | pF |
| Rise/Fall Time | T / t f | VR=10V RL=1K Ω | _____ | 6/6 | _____ | ns |