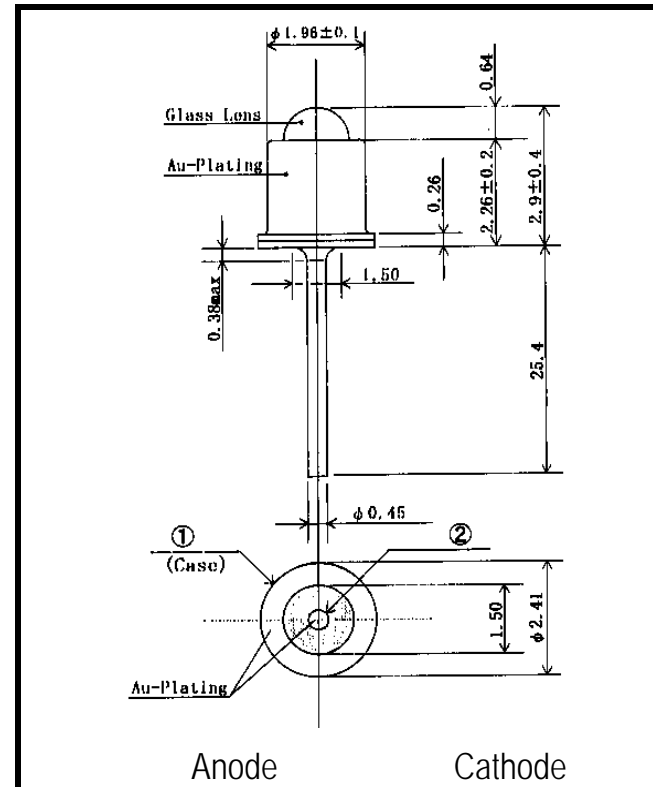


PD061PT

Photo Diode

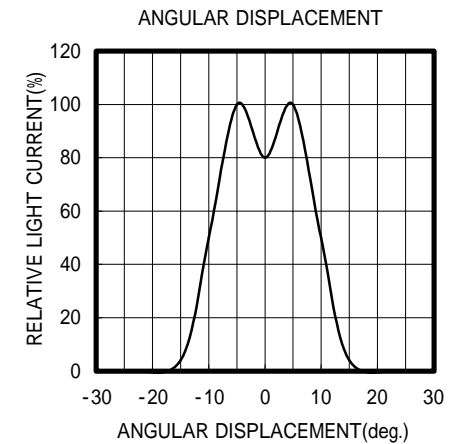
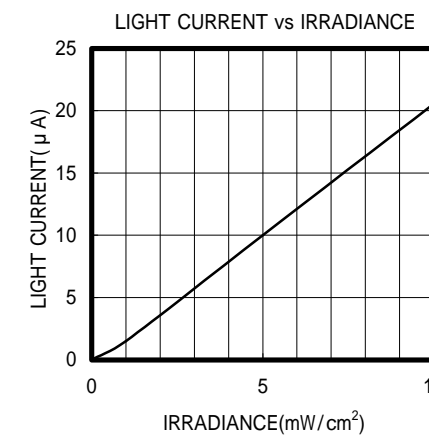
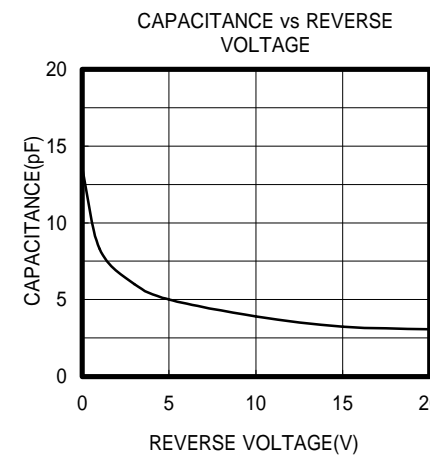


- FEATURES**
- Linearity of E_e vs I_L
 - Low Dark Current
 - Narrow Angular Response
 - High Reliability in Demanding Environments (Metal Can Package)
- APPLICATIONS**
- Optical Switches
 - Edge Sensing
 - Fiber Optical Communications
 - Smoke Detectors

2. ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25)

| ITEM | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNIT |
|------------------------------|-------------|---------------------------------------|------|------------|-----|---------------|
| Open Circuit Voltage | Voc | $E_e=5\text{mW/cm}^2$ | 0.35 | | | V |
| Light Current | I_L | $V_R=10\text{V}, E_e=5\text{mW/cm}^2$ | | 10 | | μA |
| Dark Current | I_D | $V_R=10\text{V}$ | | | 10 | nA |
| Curve Factor | CF | $E_e=5\text{mW/cm}^2$ | 0.55 | | | - |
| Spectral Sensitivity | | | | 400 ~ 1100 | | nm |
| Peak Sensitivity Wave Length | λ_p | | | 880 | | nm |
| Switching time (Rise Time) | T_r | $R=1000, V_r=10\text{V}$ | | 6 | | nS |
| Switching time (Fall Time) | T_f | $R=1000, V_r=10\text{V}$ | | 6 | | nS |
| Angular Response | | | | ± 10 | | deg |
| Junction Capacitance | C_j | at 1MHz, $V=5\text{V}$ | | 5 | 10 | pF |

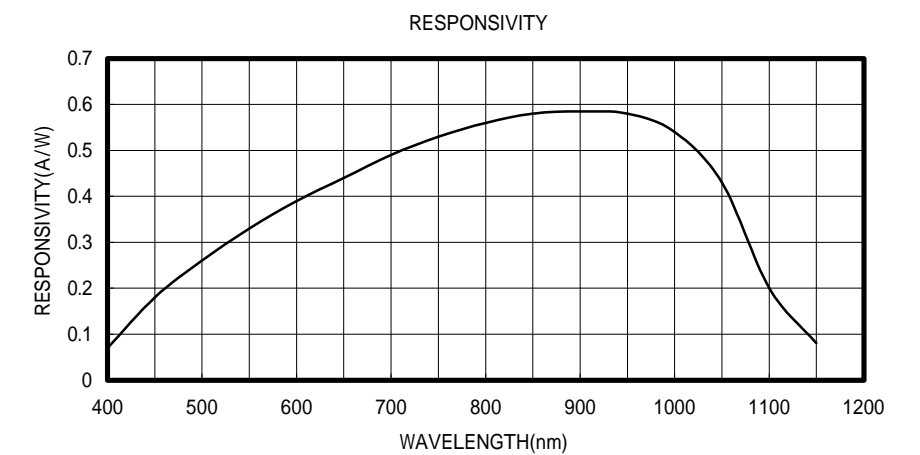
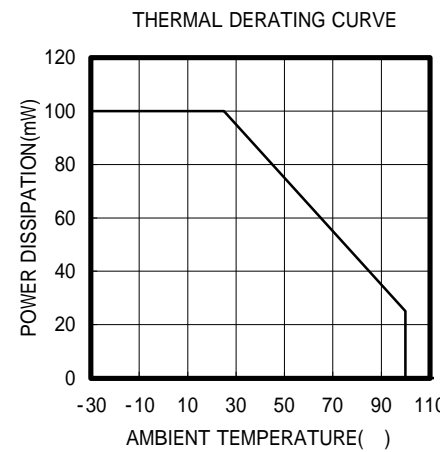
Color Temperature=2870°K Standard Tungsten Lump



1. ABSOLUTE MAXIMUM RATINGS (Ta=25)

| ITEM | SYMBOL | RATINGS | UNIT |
|------------------------|-----------|------------|------|
| Reverse Voltage | V_R | 30 | V |
| Power Dissipation | PD | 100 | mW |
| Operating Temp. | T_{opr} | -30 TO 100 | |
| Storage Temp. | T_{stg} | -40 TO 125 | |
| Junction Temp. | T_j | 125 | |
| Lead Soldering Temp.*1 | T_{ls} | 260 | |

*1:Time 5 Sec max,Position:Up to 3mm from the body



OPTRANS

2-6-11 MASUKATA,TAMA-KU, KAWASAKI 214-0032.JAPAN
 TEL.81(44)932-6491 / FAX.81(44)932-8281
 E-mail oprans@mb.kcom.ne.jp