

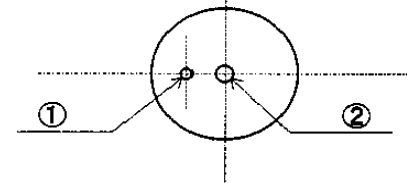
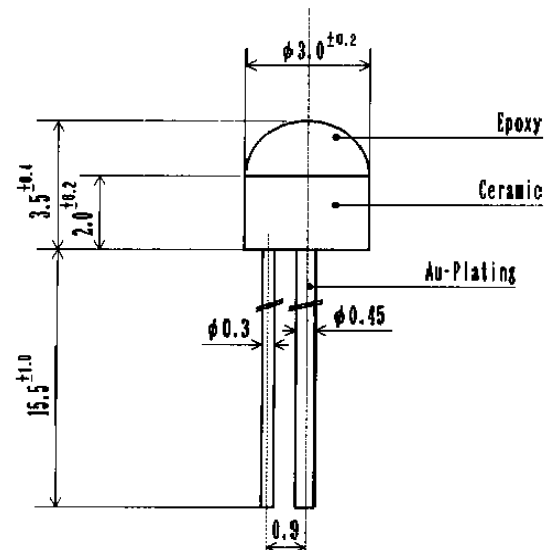
MTD2001M

Features

High Reliability
Low Dark Current
Compact Package

Applications

Optical Switches
Optical Sensors
Optical Detectors



① Emitter

② Collector

Maximum Ratings (Ta=25°C)

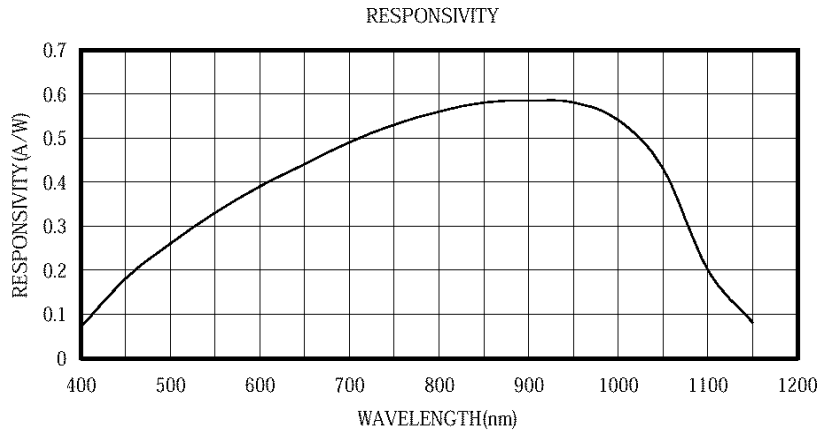
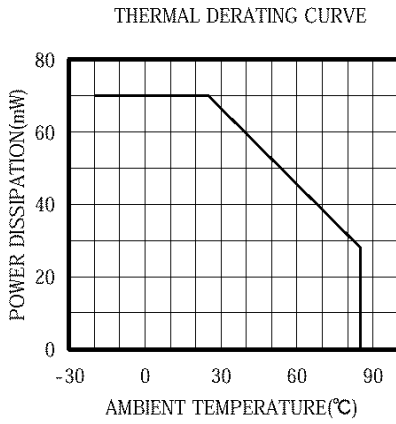
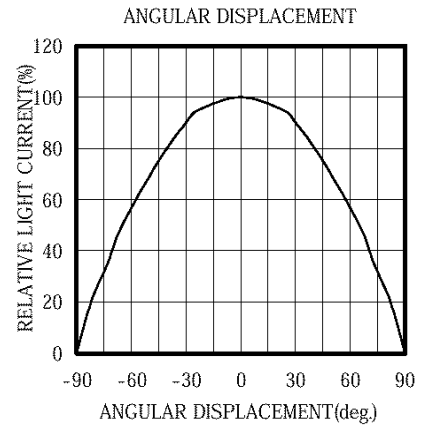
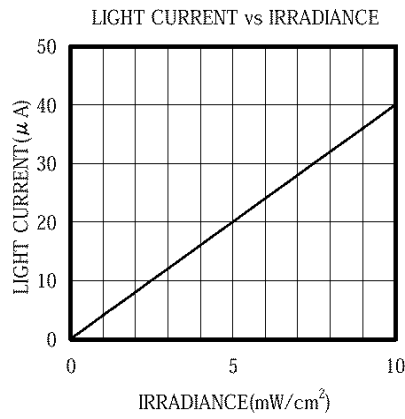
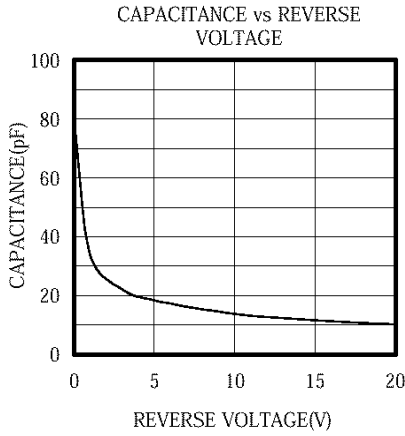
| Characteristic | Symbol | Max. | Test Condition | Unit |
|-----------------------|------------------|-----------|----------------|------|
| Reverse Voltage | V _R | 20 | - | V |
| Power Dissipation | P _D | 70.00 | - | mW |
| Operating Temperature | T _{opr} | -20~+85 | - | °C |
| Storage Temperature | T _{stg} | -30 ~+100 | - | °C |
| Junction Temperature | T _j | 100 | - | °C |
| Soldering Temperature | T _{sol} | 260 | for 5 sec. max | °C |

Opto-Electrical Characteristics (Ta=25°C)

| Characteristic | Symbol | Test Condition | Min | Typ | Max | Unit |
|-----------------------------|-----------------|---------------------------------------------|-----|------------|-----|------|
| Open Circuit Voltage | V _{oc} | Ee=5mW/cm ² | .35 | - | - | V |
| Light Current | I _L | V _r =10V, Ee=5mW/cm ² | - | 20.00 | - | μA |
| Dark Current | I _D | V _r =10V | - | - | 5 | nA |
| Spectral Sensitivity | λ | - | - | 400 ~ 1100 | - | μA |
| Peak Sensitivity Wavelength | λ _p | - | - | 950 | - | V |
| Beam Angle | θ | - | - | ± 65° | - | deg. |
| Junction Capacitance | C _j | 1 MHz, V=0V | - | 80 | - | pF |

* Color Temperature = 2870°K Standard Tungsten Lamp

MTD2001M Graphs



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