

FEATURES

- Ø 1.13 mm active area
- Long term stability
- High sensitivity
- UV/ Blue enhanced

DESCRIPTION

1.0 mm² UV Silicon Photodiode with N on P construction. Hermetically packaged in a TO-52 with a UV transmitting clear glass window cap.

APPLICATIONS

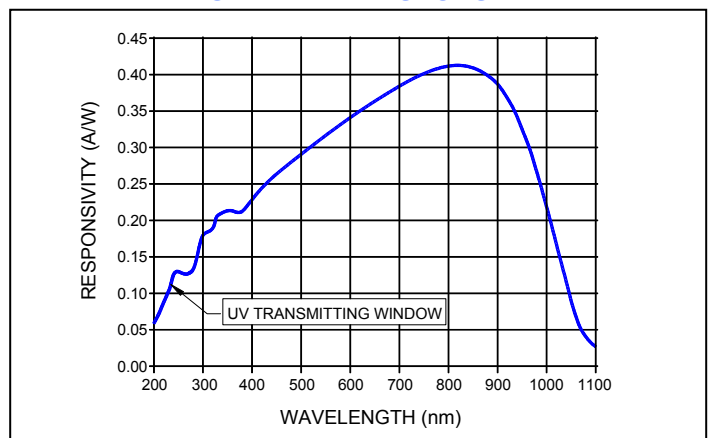
- UV exposure meters
- Pollution monitoring
- Fluorescent analyzers
- Medical instrumentation



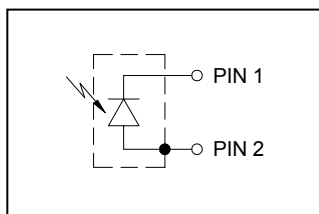
ABSOLUTE MAXIMUM RATING

| SYMBOL | PARAMETER | MIN | MAX | UNITS |
|---------------------|---------------------------|-----|------|-------|
| T _{STG} | Storage Temp | -55 | +125 | °C |
| T _{OP} | Operating Temp | -40 | +100 | °C |
| V _{R(OP)} | Reverse Operating Voltage | - | 50 | V |
| I _(PEAK) | Peak DC Current | - | 10 | mA |

SPECTRAL RESPONSE



SCHEMATIC



ELECTRO-OPTICAL CHARACTERISTICS @ 22° C

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|-----------------|------------------------|---|-----|-------------------------|-----|---------------------|
| R _{SH} | Shunt Resistance | V _R = ±10 mV | 500 | 2000 | --- | MΩ |
| I _D | Dark Current | V _R = 5 V | --- | 0.2 | --- | nA |
| C | Capacitance | V _R = 0 V | --- | 60 | --- | pF |
| | | V _R = 5 V | --- | 30 | --- | |
| | Responsivity | V _R = 0 V; λ = 340 nm | --- | 0.17 | --- | A/W |
| | | V _R = 0 V; λ = 850 nm | --- | 0.42 | --- | |
| NEP | Noise Equivalent Power | V _R = 0 V; λ = 850 nm; R _L = 50 Ω | --- | 8.0 X 10 ⁻¹⁵ | --- | W/Hz ^{1/2} |
| V _{BR} | Breakdown Voltage | I _R = 10 μA | 30 | 50 | --- | V |
| t _r | Rise Time | V _R = 5 V; λ = 410 nm; R _L = 50 Ω | --- | 0.1 | --- | μs |

These devices are sensitive to electrostatic discharge. Please use ESD precautions when handling.

Disclaimer: Due to our policy of continued development, specifications are subject to change without notice.

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