
FEATURES

- Ø 7.98 mm active area
- Low dark current
- Long term stability
- High shunt resistance

DESCRIPTION

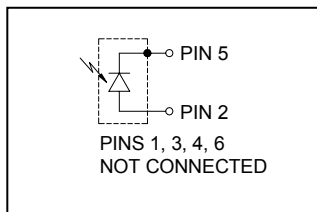
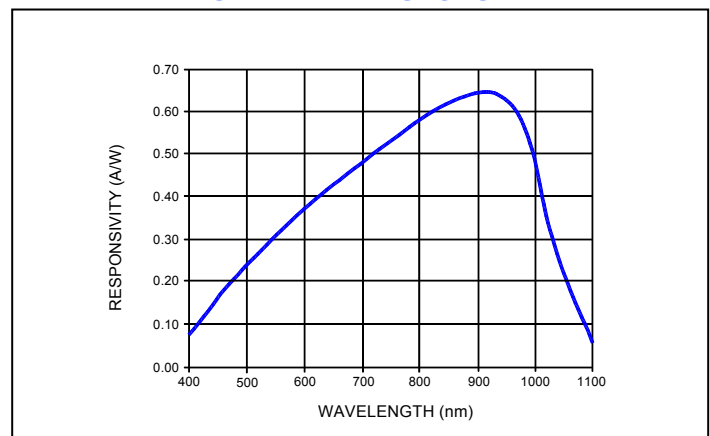
50.0 mm² Low Dark Current PIN Photodiode. Packaged in a TO-8 with a non-hermetic ultra flat fused silica glass window cap. Also available with six pin isolated case package.

APPLICATIONS

- Precision photometry
- Bar code readers
- Medical equipment
- Pulsed light sensor


ABSOLUTE MAXIMUM RATING

| SYMBOL | PARAMETER | MIN | MAX | UNITS |
|---------------------|---------------------------|-----|-----|-------|
| T _{STG} | Storage Temp | -20 | +80 | °C |
| T _{OP} | Operating Temp | -20 | +60 | °C |
| V _{R(OP)} | Reverse Operating Voltage | - | 50 | V |
| I _(PEAK) | Peak DC Current | - | 10 | mA |

SCHEMATIC

SPECTRAL RESPONSE

ELECTRO-OPTICAL CHARACTERISTICS @ 22° C

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|-----------------|------------------------|--|-----|-------------------------|-----|---------------------|
| R _{SH} | Shunt Resistance | V _R = ±10 mV | 100 | 300 | --- | MΩ |
| I _D | Dark Current | V _R = 10 V | --- | 0.5 | --- | nA |
| C | Capacitance | V _R = 0 V; | --- | 480 | --- | pF |
| | | V _R = 10 V; | --- | 100 | --- | |
| | Responsivity | V _R = 0 V; λ = 633 nm | --- | 0.40 | --- | A/W |
| | | V _R = 0 V; λ = 900 nm | --- | 0.64 | --- | |
| NEP | Noise Equivalent Power | V _R = 10 V; λ = 850 nm; R _L = 50 Ω | --- | 2.5 × 10 ⁻¹⁴ | --- | W/Hz ^{1/2} |
| V _{BR} | Breakdown Voltage | I _R = 10 μA | 100 | --- | --- | V |
| t _r | Rise Time | V _R = 10 V; λ = 850 nm; R _L = 50 Ω | --- | 30 | --- | ns |
| | | V _R = 80 V; λ = 850 nm; R _L = 50 Ω | --- | 7 | --- | |

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

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