

Sensitivity Wavelength Range: 800nm ~ 2600nm

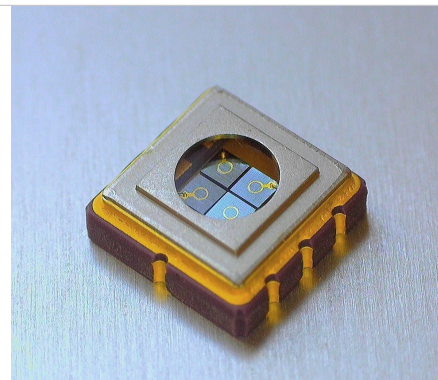
The MTSM2601SMF2-SP4-030, a high sensitivity and high reliability product series, is ideally suited for Optical Communication devices. Custom packaging options for this die are also available.

FEATURES

- > High Speed Response - 1.0GHz
- > 5mm x 5mm Seam Welded Surface Mount Package
- > Active Area of 3.0mm / High Sensitivity
- > Spectral Range: 800nm - 2600nm
- > 4 Individual 0.3mm active area photodiodes

APPLICATIONS

- > High Speed Optical Communications
- > Industrial Controls
- > Optical Switches
- > LIDAR
- > Medical



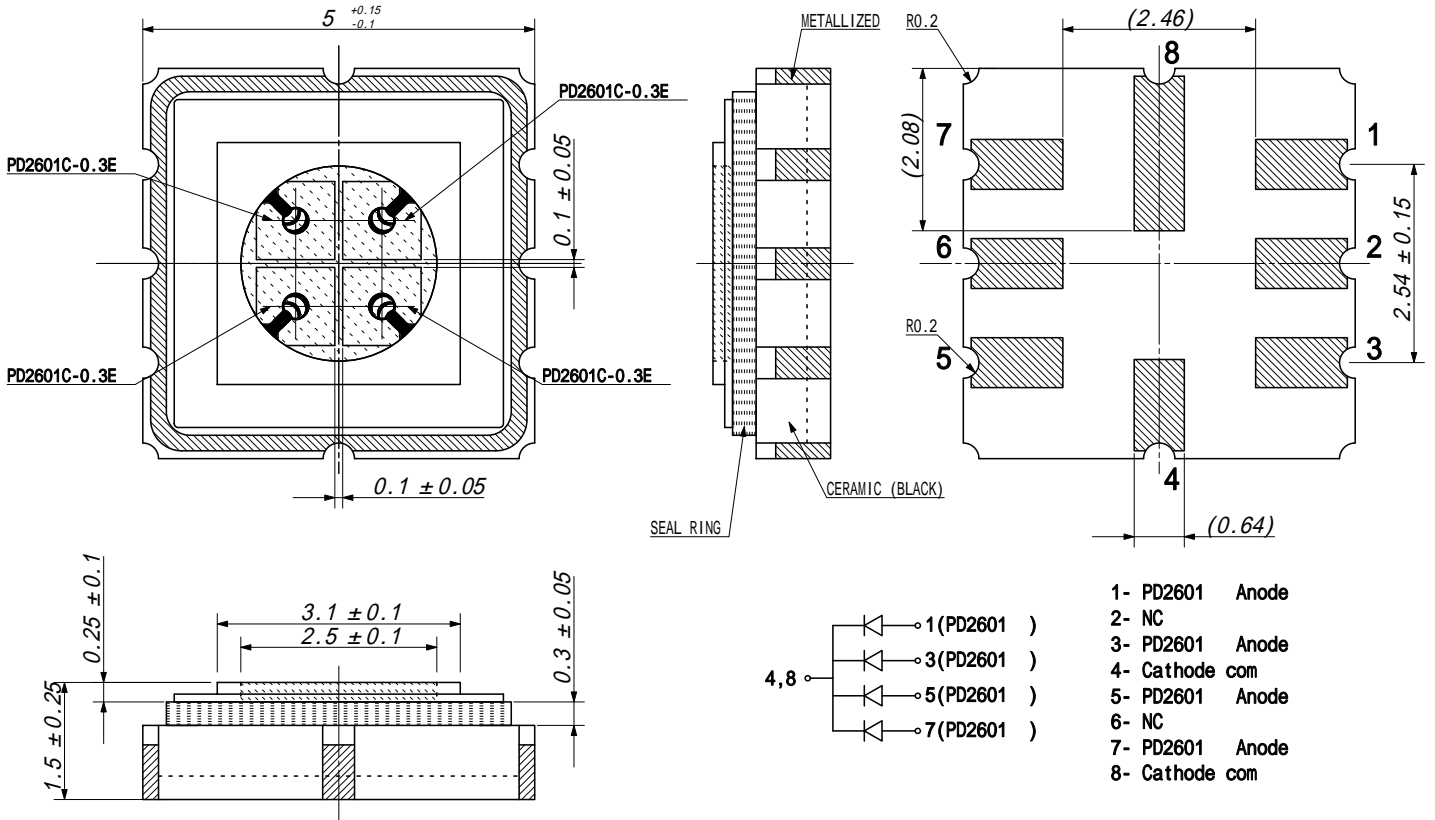
Absolute Maximum Ratings (Ta=25°C)

| ITEMS | SYMBOL | RATINGS | UNIT |
|-----------------------------|------------------|-------------|------|
| Active Area | Φ | 3.0 | mm |
| Operating Temperature Range | T _{opr} | -40 to +85 | °C |
| Storage Temperature Range | T _{stg} | -40 to +125 | °C |

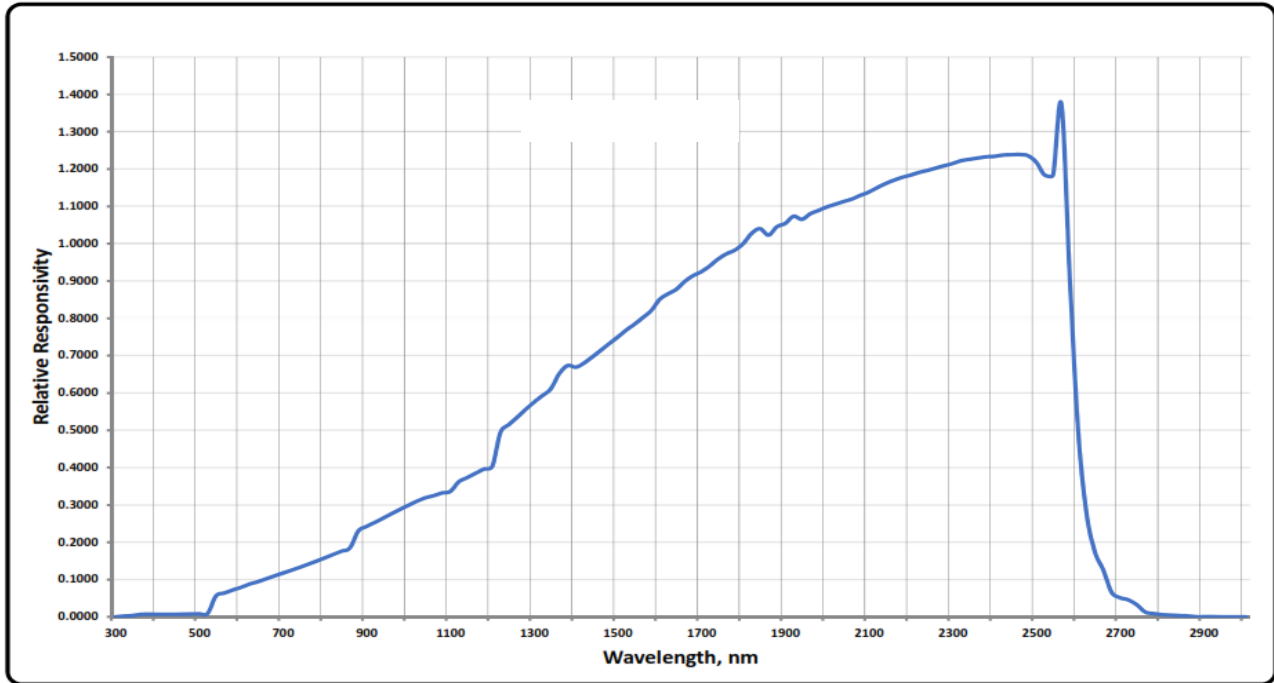
Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNIT |
|--------------------|--------|------------|-----|------|------|------|
| Breakdown Voltage | VR | IR=100uA | -- | -- | 1 | V |
| Sensitivity Range | λ | VR=0V | 800 | -- | 2600 | nm |
| Dark Current | ID | VR=0V | -- | 120 | -- | nA |
| Dark Current | ID | VR=1V | -- | 100 | -- | uA |
| Capacitance | C | VR=0V | -- | 150 | -- | pF |
| Capacitance | C | VR=1V | -- | 20 | -- | pF |
| Responsivity | R | λ=2400nm | -- | 1.24 | -- | A/W |
| Shunt Resistance | RS | VR=10mV | -- | 3.4 | -- | kOhm |
| Quantum Efficiency | QE | λ=1840nm | -- | 72 | -- | % |

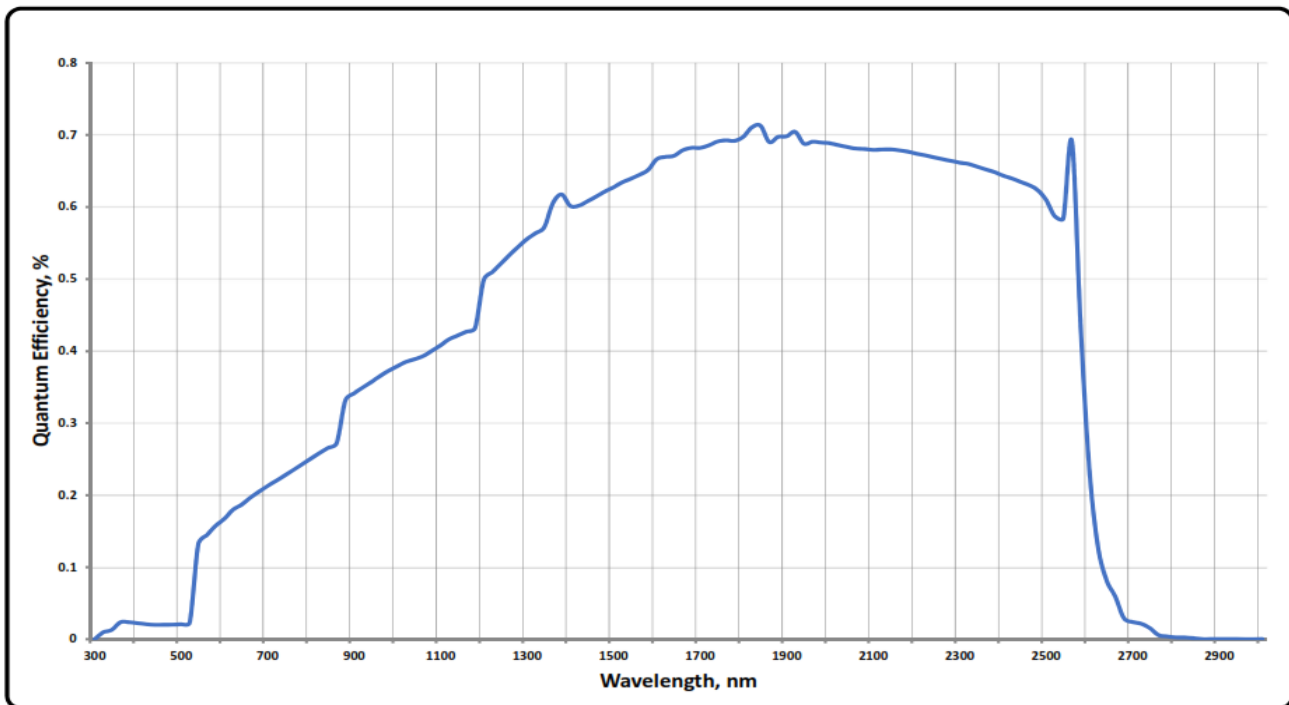
*1: Device specifications are (Per Element)



Spectral Responsivity

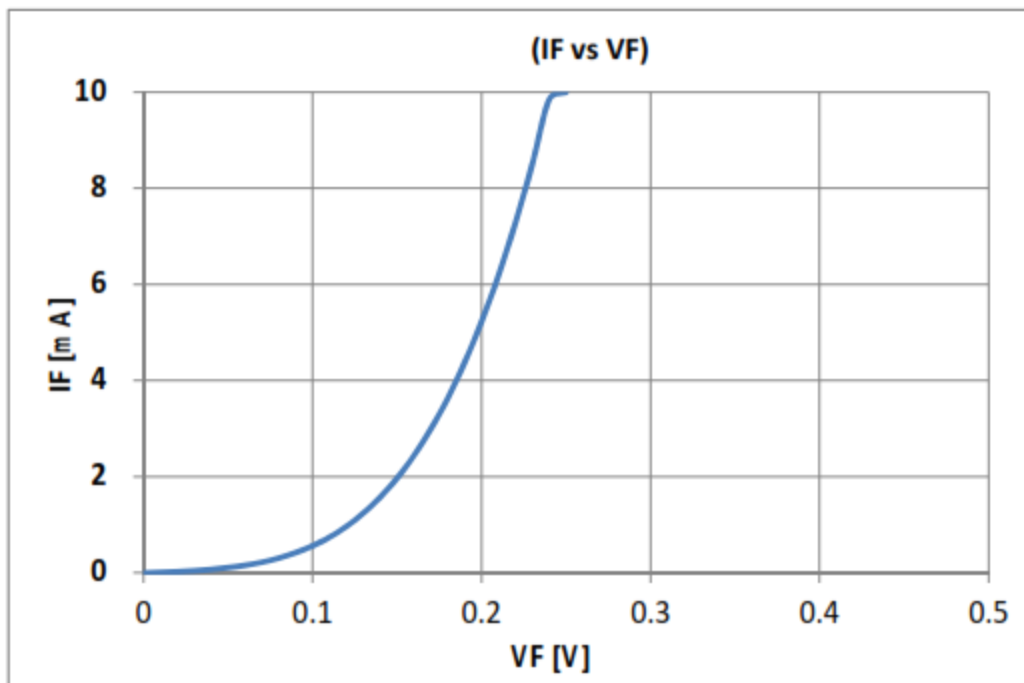
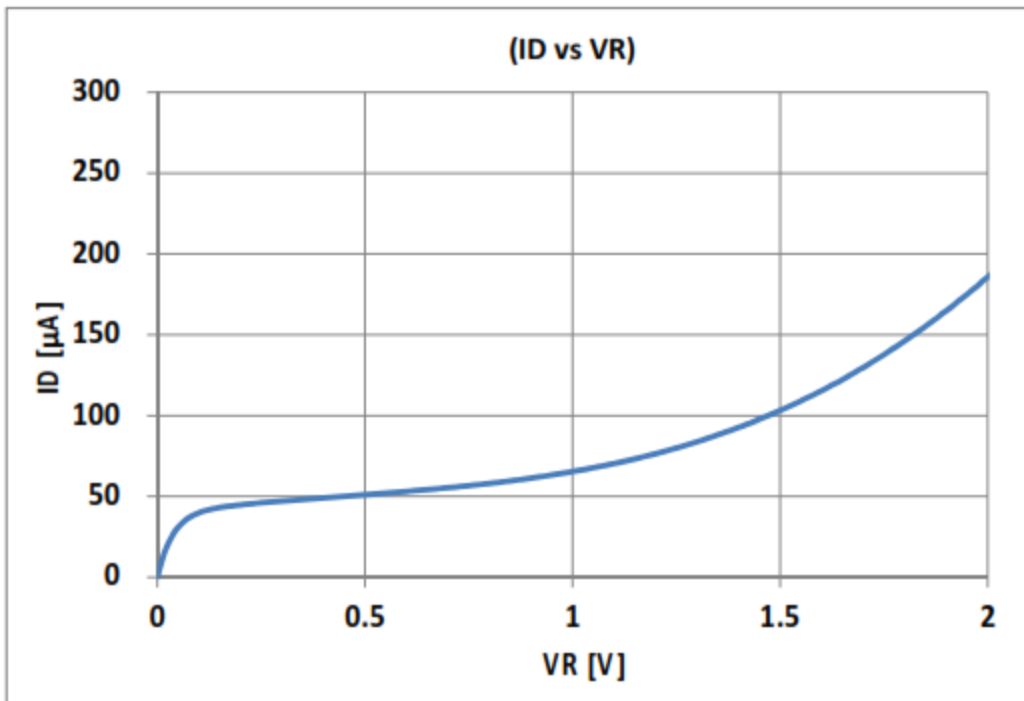


Quantum Efficiency



The information contained herein is subject to change without notice.

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