

## Sensitivity Wavelength Range: 600nm~2600nm

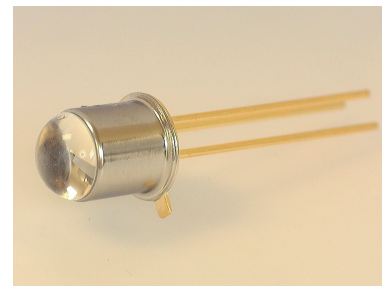
The MTPD2601N-100 from Marktech, a high sensitivity and high reliability product series, is ideally suited for Optical Communication devices. Custom packaging options for this die is also available.

### FEATURES

- > High Speed Response
- > TO-46 Metal Can Dome Package
- > Active Area of **1.0mm**  $\Phi$  / High Sensitivity
- > Spectral Range 600nm - 2600nm

### APPLICATIONS

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



## Absolute Maximum Ratings (Ta=25°C)

| ITEMS                       | SYMBOL | RATINGS     | UNIT |
|-----------------------------|--------|-------------|------|
| Active Area                 | $\Phi$ | 1.0         | mm   |
| Operating Temperature Range | Topr   | -40 to +85  | °C   |
| Storage Temperature Range   | Tstg   | -40 to +125 | °C   |

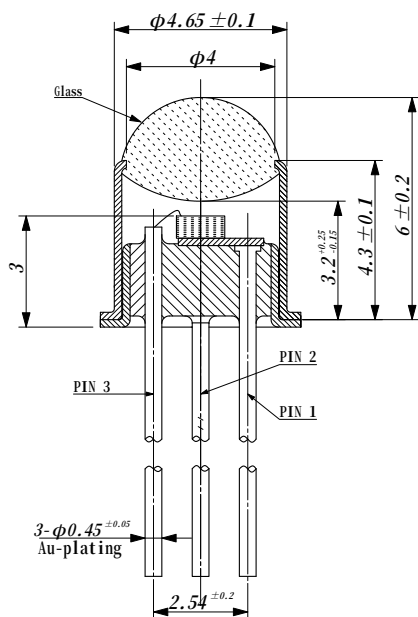


## Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS                             | SYMBOL    | CONDITIONS        | MIN | TYP  | MAX  | UNIT    |
|-----------------------------------|-----------|-------------------|-----|------|------|---------|
| Breakdown Voltage                 | VR        | IR=100uA          | 3   | --   | --   | V       |
| Sensitivity Range                 | $\lambda$ | VR=0V             | 600 | --   | 2600 | nm      |
| Dark Current                      | ID        | VR=1V             | --  | --   | 300  | uA      |
| Capacitance                       | C         | VR=0V             | --  | 1000 | --   | pF      |
| Capacitance                       | C         | VR=1V             | --  | 85   | --   | pF      |
| Responsivity *1                   | R         | $\lambda$ =2400nm | --  | 1.24 | --   | A/W     |
| Shunt Resistance                  | RS        | VR=10mV           | --  | 3.5  | --   | kOhm    |
| Quantum Efficiency *1             | QE        | $\lambda$ =1840nm | --  | 72   | --   | %       |
| Light Current @ $\lambda$ =1300nm | IL        | If=10mA           | --  | 30   | --   | $\mu$ A |
| Light Current @ $\lambda$ =1300nm | IL        | If=20mA           | --  | 65   | --   | $\mu$ A |

\*1: As mounted on TO-46 header without resin coating or lens cap.

## Package Dimensions

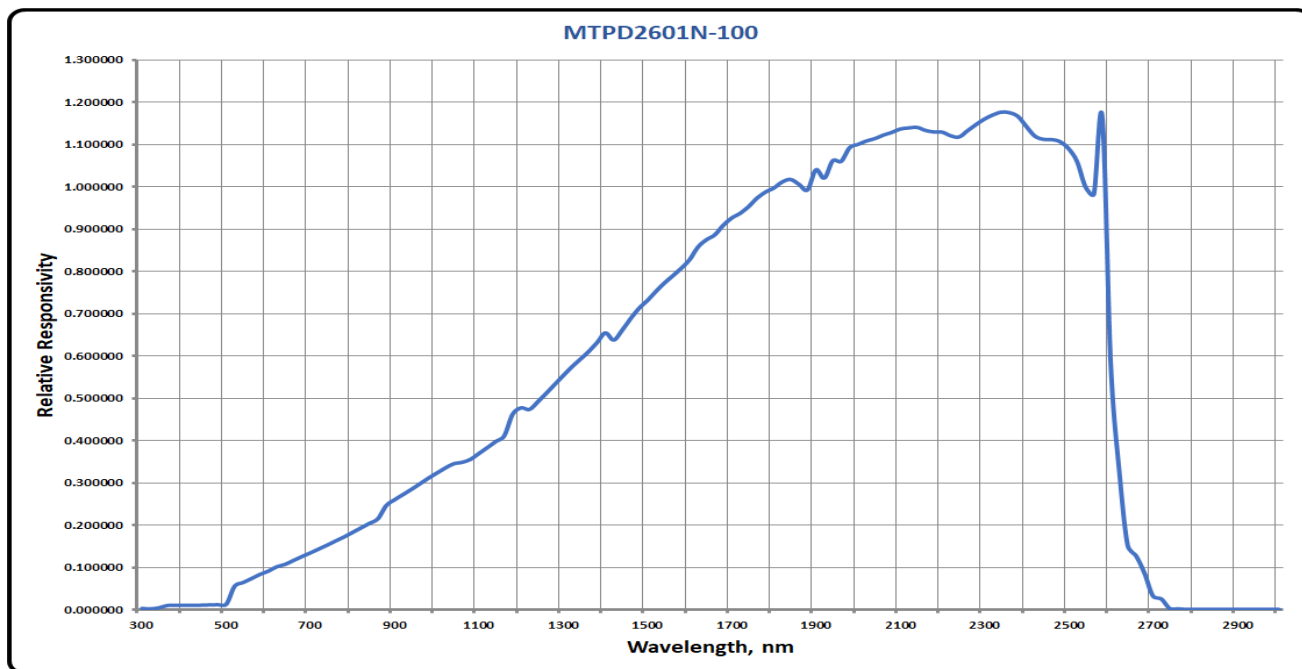


Unit: mm, Tolerance:  $\pm 0.2$

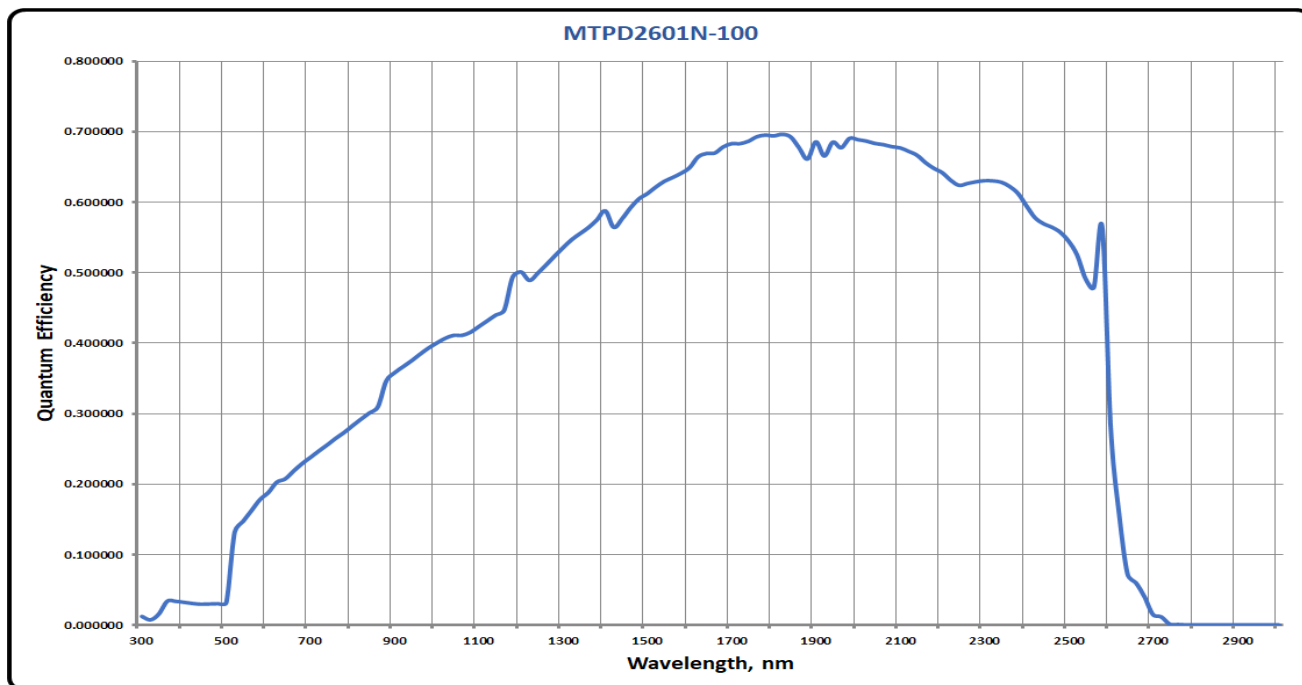
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## Spectral Responsivity

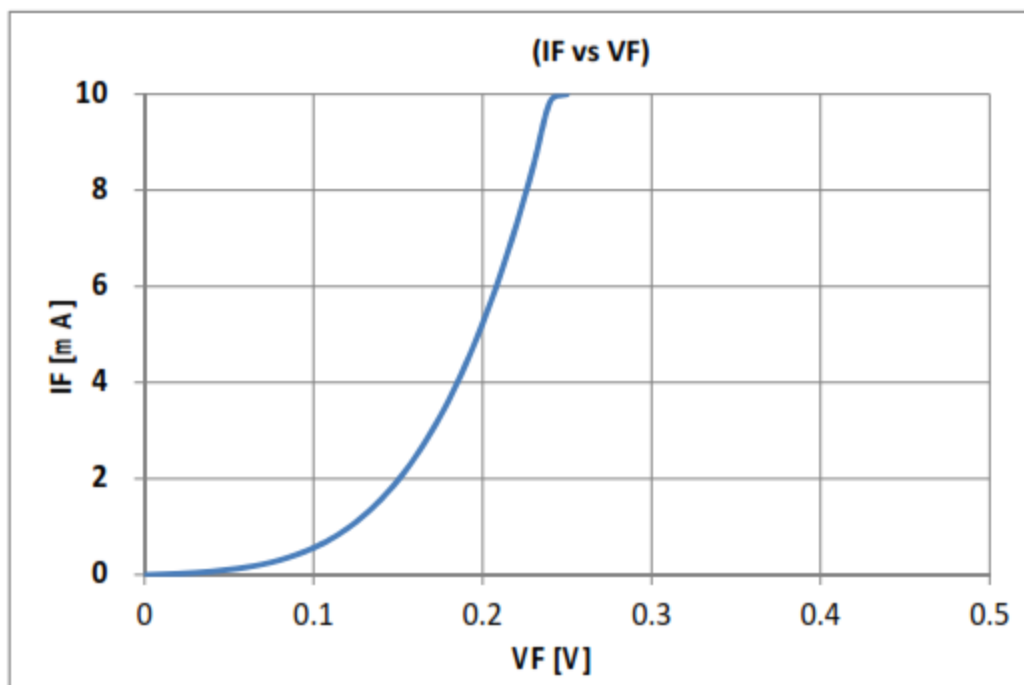
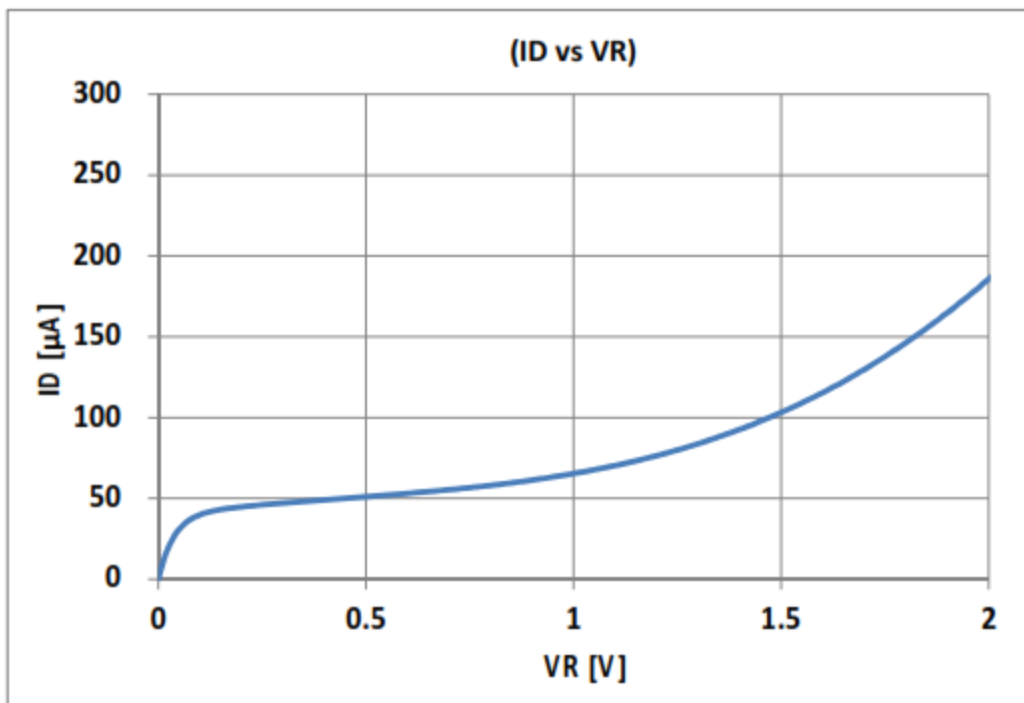


## Quantum Efficiency



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