

**EOL**

| Date         | Event                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------|
| May 1 2020   | End-of-life effective date.                                                                          |
| May 1 2020   | Last day of last-time-buy period - Limited to Stock on hand                                          |
| May 1, 2021  | Last day of technical support                                                                        |
| June 1, 2020 | Last day to request RMA.<br>After this date, RMA requests for above components will not be accepted. |

| Radiation     | Type             | Technology                                                                                                                                                                                                      | Case  |
|---------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| VUV - visible | Schottky contact | GaP                                                                                                                                                                                                             | TO-39 |
|               |                  | <b>Description:</b>                                                                                                                                                                                             |       |
|               |                  | Wide bandwidth and high sensitivity from VUV up to the visible spectrum (150 nm - 550 nm), mounted in hermetically sealed TO-39 package with sapphire window                                                    |       |
|               |                  | <b>Application:</b>                                                                                                                                                                                             |       |
|               |                  | Medical engineering (dermatology), output check of UV - lamps and oil or gas burner flame, measurement and control of ecological parameters, radiation control for a solarium, UV water purification facilities |       |

## Absolute Maximum Ratings (Ta = 25°C)

| ITEMS                                     | SYMBOL           | RATINGS     | UNIT            |
|-------------------------------------------|------------------|-------------|-----------------|
| Active Area                               | A                | 4.8         | mm <sup>2</sup> |
| Temperature Coefficient of Ip             | TC(Ip)           | 7           | %K              |
| Operating Temperature Range               | T <sub>amb</sub> | -40 to +125 | °C              |
| Storage Temperature Range                 | T <sub>stg</sub> | -40 to +125 | °C              |
| Acceptance Angle at 50% of S <sub>λ</sub> | φ                | 120         | deg.            |

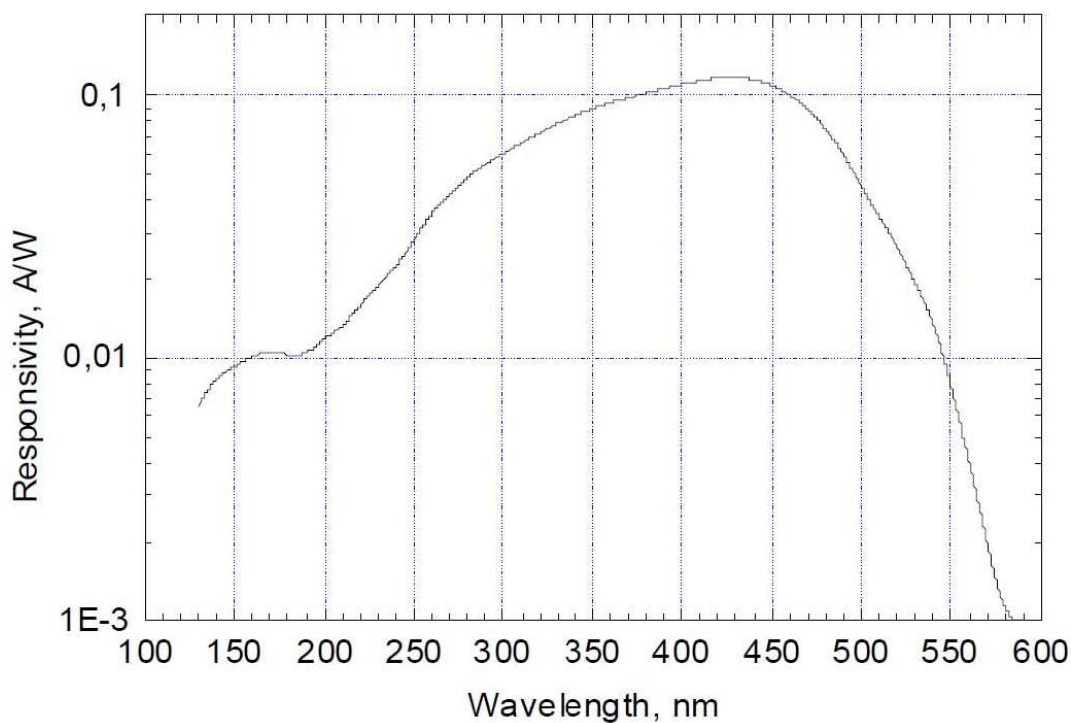
## Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS                                     | SYMBOL                              | CONDITIONS                                     | MIN | TYP                     | MAX | UNIT                       |
|-------------------------------------------|-------------------------------------|------------------------------------------------|-----|-------------------------|-----|----------------------------|
| Breakdown Voltage 1*                      | Vr                                  | Ir=10μA                                        | 5   | --                      | --  | V                          |
| Dark Current                              | Id                                  | Vr=5V                                          | --  | 15                      | 40  | pA                         |
| Peak Sensitivity Wavelength               | λ <sub>p</sub>                      | Vr=0V                                          | --  | 440                     | --  | nm                         |
| Responsivity at λ <sub>p</sub>            | S <sub>λ</sub>                      | Vr=0V                                          | 0.1 | 0.13                    | --  | A/W                        |
| Sensitivity Range at 1% of S <sub>λ</sub> | λ <sub>min</sub> , λ <sub>max</sub> | Vr=0V                                          | 150 | --                      | 550 | nm                         |
| Spectral Bandwidth at 50%                 | Δλ <sub>0.5</sub>                   | Vr=0V                                          | --  | 180                     | --  | nm                         |
| Shunt Resistance                          | Rsh                                 | Vr=10mV                                        | 80  | 100                     | --  | GΩ                         |
| Noise Equivalent Power                    | NEP                                 | λ=440 nm                                       |     | 1.3 × 10 <sup>-14</sup> |     | W/√Hz                      |
| Specific Detectivity                      | D*                                  | λ=440 nm                                       |     | 1.7 × 10 <sup>13</sup>  |     | cm · √Hz · W <sup>-1</sup> |
| Junction Capacitance                      | Cj                                  | Vr=0V                                          | --  | 1000                    | --  | pF                         |
| Photocurrent at λ=254 nm 1*               | Iph                                 | Vr=0V<br>E <sub>e</sub> = 1 mW/cm <sup>2</sup> | --  | 2.5                     | --  | μA                         |

1\* for information only

2014-04-07

**Typical responsivity**



We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

2014-04-07