

| Radiation | Type | Case |
|-----------------------|--------------|-----------------|
| Ultraviolet - visible | GaP Schottky | TO-46, UV glass |

| | |
|--|--|
| | Description: |
| | Wide bandwidth and high spectral sensitivity in the UV and visible range (190 nm - 570 nm), mounted in hermetically sealed TO-46 package with UV-glass window |
| | Applications |
| | Medical engineering (dermatology), output check of UV - lamps and gas burner flame, measurement and control of ecological parameters, radiation control for solarium, UV water purification facilities |

Absolute Maximum Ratings (Ta = 25°C)

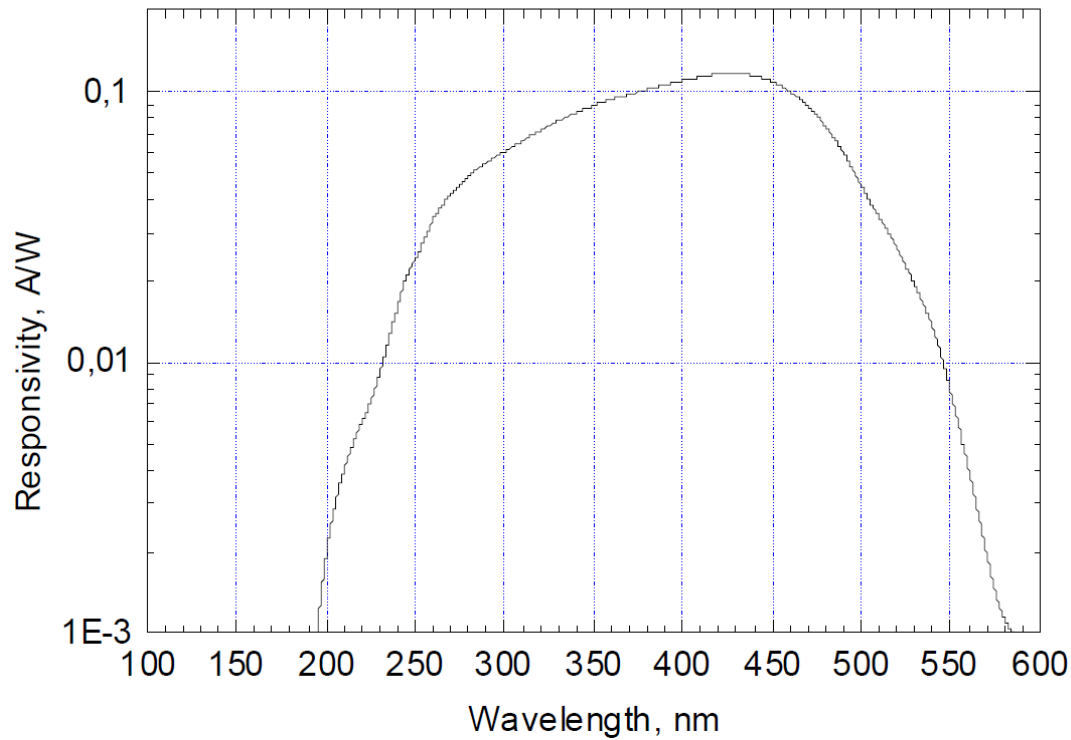
| ITEMS | SYMBOL | RATINGS | UNIT |
|---|---------------------|-------------|-----------------|
| Active Area | \square | 1.2 | mm ² |
| Temperature Coefficient of I _D | TC(I _D) | 7 | %K |
| Operating Temperature Range | T _{amb} | -40 to +125 | °C |
| Storage Temperature Range | T _{stg} | -40 to +125 | °C |
| Acceptance Angle at 50% of S _λ | φ | 50 | deg. |

Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNIT |
|---------------------------------------|-------------------------------------|--|-----|-------------------------|-----|----------------------------|
| Reverse Voltage | V _r | I _r =10μA | 5 | -- | -- | V |
| Dark Current | I _d | V _r =5V | -- | 10 | 30 | pA |
| Peak Wavelength | λ _p | V _r =0V | -- | 440 | -- | nm |
| Spectral Response | S _λ | V _r =0V | 0.1 | 0.13 | -- | A/W |
| Wavelength Range | λ _{min} , λ _{max} | V _r =0V | 190 | -- | 570 | nm |
| Bandwidth | Δλ _{0.5} | V _r =0V | -- | 85 | -- | nm |
| Shunt Resistance | R _{sh} | V _r =10mV | 150 | 200 | -- | GΩ |
| Non-Reversal Power | NEP | λ=365 nm | -- | 1.1 x 10 ⁻¹⁴ | -- | W/√Hz |
| Diffusion Coefficient | D* | λ=365 nm | -- | 1.0 x 10 ¹² | -- | cm · √Hz · W ⁻¹ |
| Capacitance | C _j | V _r =0V | -- | 300 | -- | pF |
| Switching Time (R _L = 50Ω) | t _r , t _f | V _r =5V | -- | 1; 20 | -- | ns |
| Responsivity | I _{ph} | V _r =0V E _e =1 mW/cm ² | -- | 1.55 | -- | μA |

1* for information only

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.