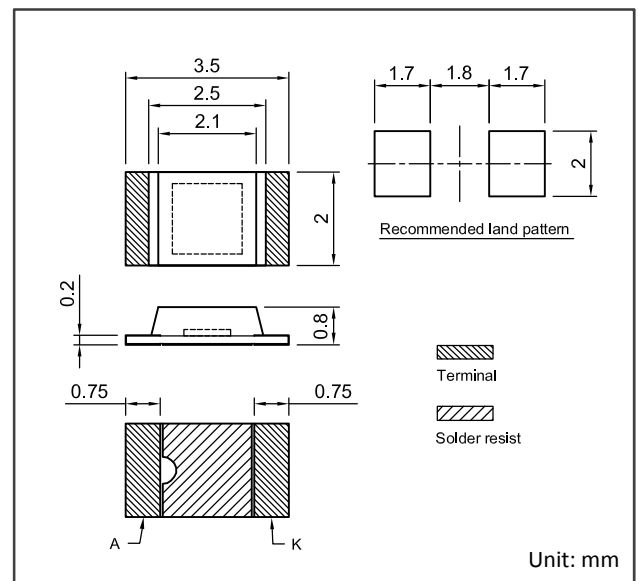


Features

- Transparent epoxy mold
- High sensitivity
- SMD type package

Applications

- Optical switches
- Optical encoders
- Pulse detectors
- Sensors and industrial controls

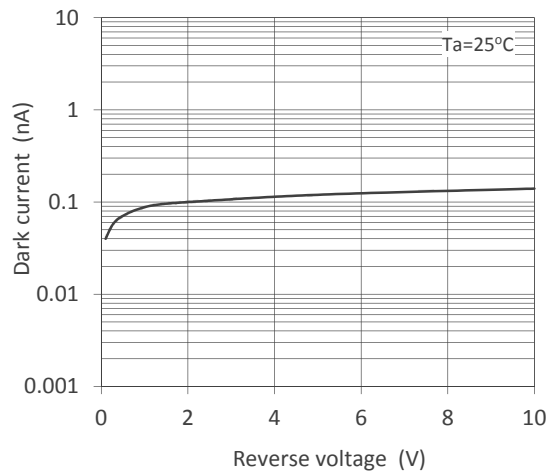
**Absolute Maximum Ratings**

| Parameter | Symbol | Value | Unit | Note |
|-----------------------|-----------|-------------|------|------------------------|
| Reverse voltage | V_R | 10 | V | |
| Reverse current | I_R | 1 | mA | |
| Forward current | I_F | 10 | mA | |
| Operating temperature | T_{opr} | -20 to +80 | °C | Avoid dew condensation |
| Storage temperature | T_{stg} | -20 to +100 | °C | Avoid dew condensation |
| Soldering temperature | T_{sol} | 260 | °C | Max 5 sec. |

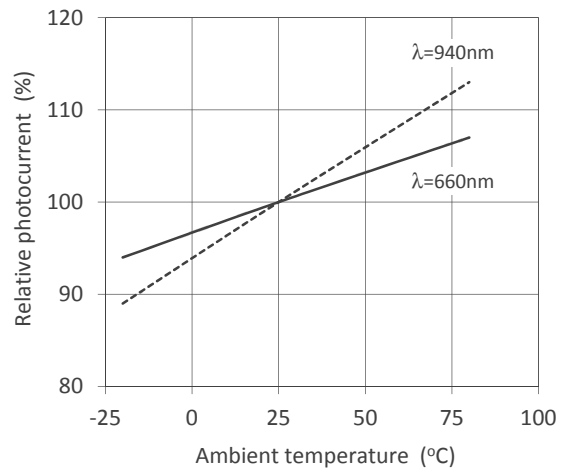
Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|-----------------------|-----------|-------------|--------------------|------|-----------------|------------------------------|
| Active area | S | 1.25 x 1.25 | | | mm ² | |
| Sensitive wavelength | λ | 400 | 950(λ_p) | 1100 | nm | λ_p =Peak wavelength |
| Open circuit voltage | V_{op} | - | 400 | - | mV | 1000lx @2856K |
| Short circuit current | I_{sh} | - | 15 | - | μ A | 1000lx @2856K |
| Dark current | I_D | - | - | 10 | nA | $V_R=5V$ |
| Terminal capacitance | C_t | - | 6 | - | pF | $V_R=5V, f=1MHz$ |
| Half angle | 2θ | - | 140 | - | deg. | |

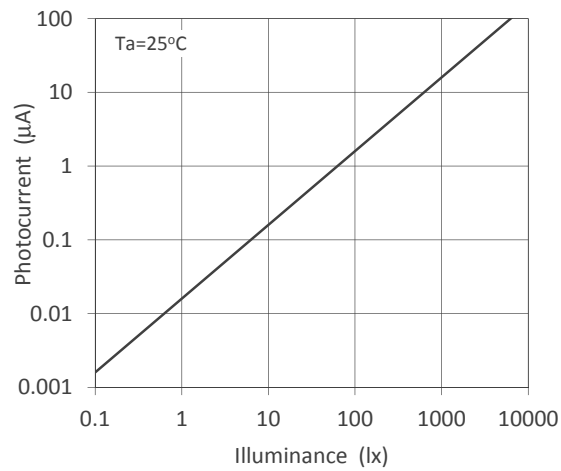
Dark Current - Reverse Voltage



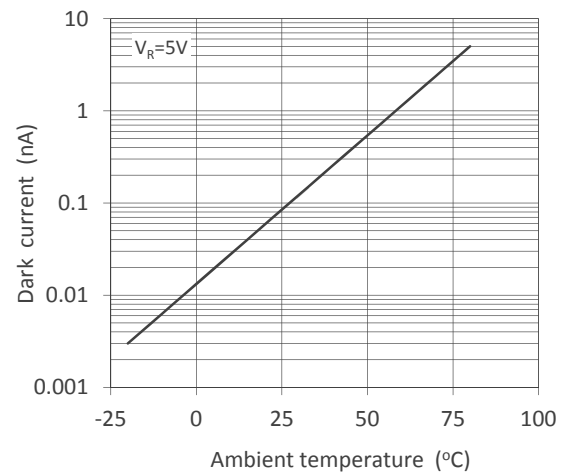
Photocurrent - Ambient Temperature



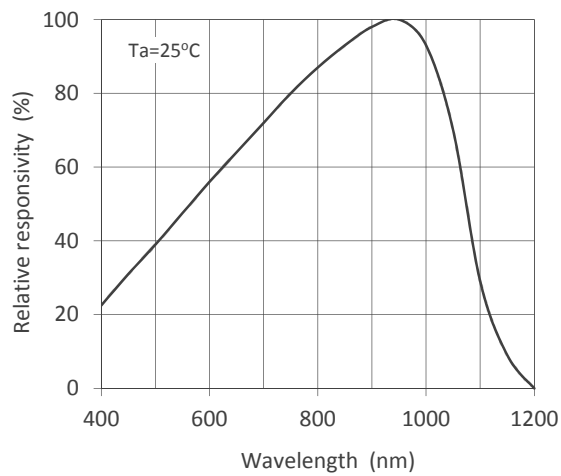
Photocurrent - Illuminance



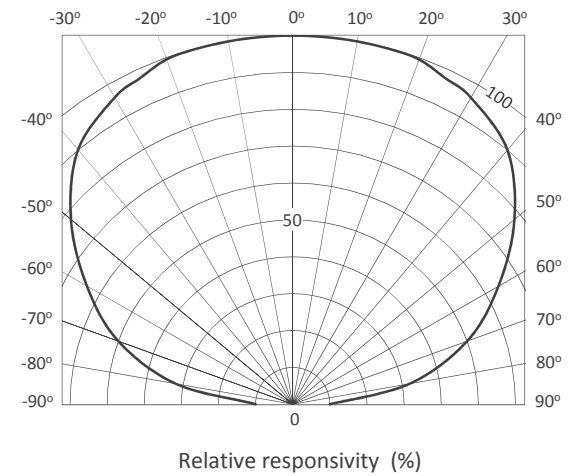
Dark Current - Ambient Temperature



Spectral Responsivity



Directivity



- Specifications, characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).

Opto-technologies for the Future



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