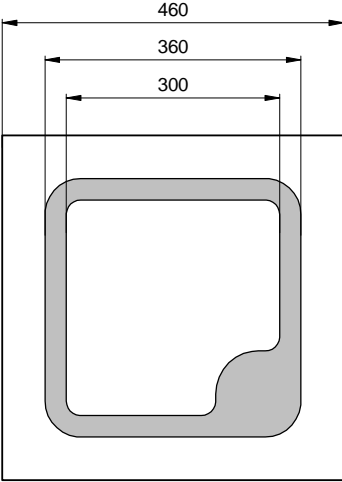


| Wavelength range | Type | Technology | Electrodes |
|------------------|-------------------|-------------|--------------|
| Red, selective | Integrated filter | AlGaAs/GaAs | P (anode) up |

| | | |
|---|--|---|
|  | typ. dimensions (μm) | |
| | typ. thickness 260 (±25) μm anode gold alloy, 1.5 μm cathode gold alloy, 0.5 μm | Description Narrow response range (660 nm peak) Applications Optical communications, safety equipment, light barriers |

Miscellaneous Parameters

T_{amb} = 25°C, unless otherwise specified

| Parameter | Test conditions | Symbol | Value | Unit |
|-----------------------------|-----------------|------------------|-------------|-----------------|
| Active area | | A | 0,17 | mm ² |
| Operating temperature range | | T _{amb} | -40 to +125 | °C |
| Storage temperature range | | T _{stg} | -40 to +125 | °C |

Optical and Electrical Characteristics

T_{amb} = 25°C, unless otherwise specified

| Parameter | Test conditions | Symbol | Min | Typ | Max | Unit |
|---|----------------------|---------------------------------|-----|-------|-----|------|
| Peak sensitivity wavelength | V _R = 0 V | λ _p | | 660 | | nm |
| Spectral range at 50%, lower limit | V _R = 0 V | λ _{0.5} | 600 | 620 | 630 | nm |
| Spectral range at 50 %, upper limit | V _R = 0 V | λ _{0.5} | 690 | 700 | 720 | nm |
| Responsivity at λ _p ¹ | V _R = 0 V | S _λ | | 0.20 | | A/W |
| Responsivity at λ _p ² | V _R = 0 V | S _λ | | 0.42 | | A/W |
| Spectral bandwidth at 50% | V _R = 0 V | Δλ _{0.5} | | 80 | | nm |
| Dark current | V _R = 1 V | I _D | | 40 | 200 | pA |
| Junction capacitance | V _R = 0 V | C _J | | 40 | | pF |
| Switching time | V _R = 1 V | t _r , t _f | | 15/30 | | ns |

¹Measured on bare chip on TO-18 header

²Measured on epoxy covered chip on TO-18 header

Labeling

| Type | Typ. I _D [pA] | Typ. S _λ [A/W] | Lot N° | Quantity |
|-------------|--------------------------|---------------------------|--------|----------|
| EPC-660-0.5 | | | | |

Packing: Chips on adhesive film with wire-bond side on top

*Note: All measurements carried out with *EPIGAP* equipment

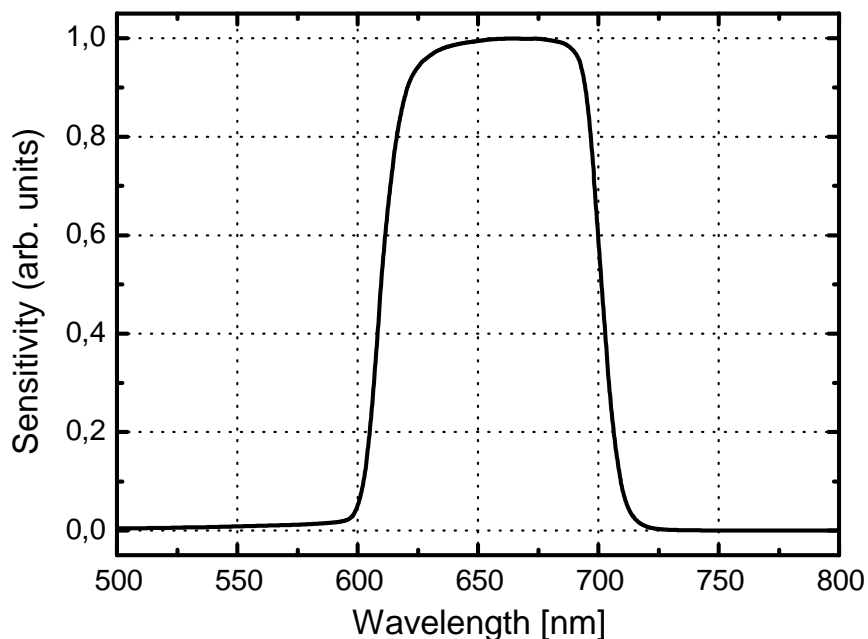
We reserve the right to make changes to improve technical design and may do so without further notice.

Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

EPIGAP Optoelektronik GmbH, D-12555 Berlin, Köpenicker Str.325 b, Haus 201

Tel.: +49-30-6576 2543, Fax : +49-30-6576 2545

Typical responsivity spectrum



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.