

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

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

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 % | V _R = 0 V | λ _{0.5} | 620 | | 700 | 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

Typical responsivity spectrum

