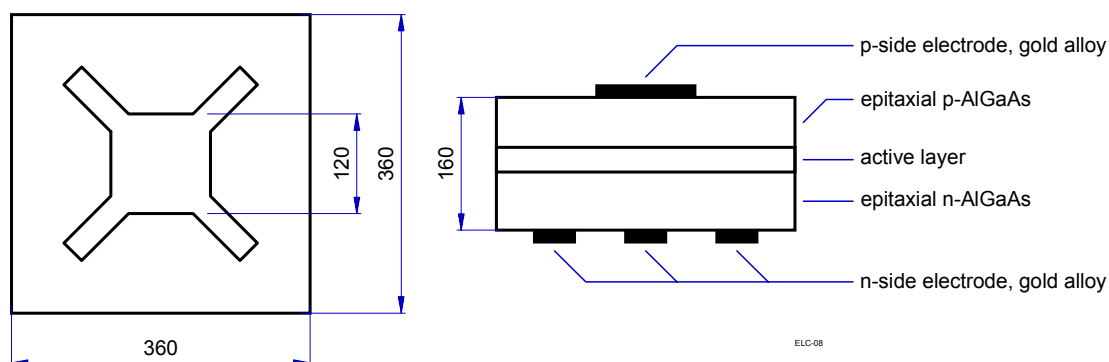


| Radiation | Type | Technology | Electrodes |
|-----------|-------------|---------------|--------------|
| Infrared | ELC-870f-17 | AlGaAs/AlGaAs | P (anode) up |

Outline (dimensions in microns)**Optical and Electrical Characteristics**

$T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

| Parameter | Test Conditions | Symbol | Min | Typ | Max | Unit |
|---------------------------|-------------------------|-----------------------|-----|-----|-----|------|
| Forward voltage | $I_F = 20 \text{ mA}$ | V_F | | 1.3 | 1.5 | V |
| Reverse voltage | $I_R = 100 \mu\text{A}$ | V_R | 5 | | | V |
| Radiant power | $I_F = 20 \text{ mA}$ | Φ_e | 3.0 | 3.5 | | mW |
| Radiant power | $I_F = 50 \text{ mA}$ | Φ_e | 7.5 | 8.8 | | mW |
| Peak wavelength | $I_F = 20 \text{ mA}$ | λ_p | | 870 | | nm |
| Spectral bandwidth at 50% | $I_F = 20 \text{ mA}$ | $\Delta\lambda_{0.5}$ | | 65 | | nm |
| Switching time | $I_F = 20 \text{ mA}$ | t_r, t_f | | 7 | 10 | ns |

Labeling

| Type | Lot N° | Φ_e (typ, min, max) | Quantity |
|-------------|--------|--------------------------|----------|
| ELC-870f-17 | | | |

Packing

Chips on adhesive film with wire-bond side on top