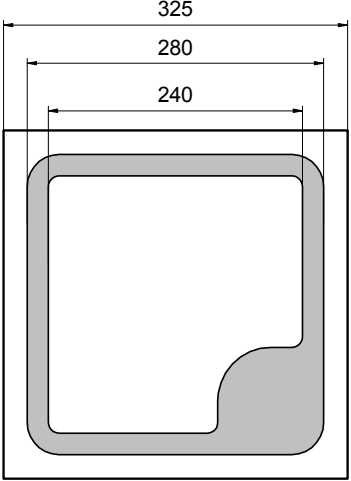


| Radiation | Type | Technology    | Electrodes     |
|-----------|------|---------------|----------------|
| Infrared  | DDH  | AlGaAs/AlGaAs | N (cathode) up |

|                                                                                                                             |                                                                      |  |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|
|  <p style="text-align: center;">LED-04</p> | typ. dimensions ( $\mu\text{m}$ )                                    |  |
|                                                                                                                             | <u>typ. thickness</u><br>150 ( $\pm 25$ ) $\mu\text{m}$              |  |
|                                                                                                                             | <u>cathode</u><br>gold alloy, 1.5 $\mu\text{m}$                      |  |
|                                                                                                                             | <u>anode</u><br>gold alloy, 0.5 $\mu\text{m}$<br>dotted, 25% covered |  |

## Optical and Electrical Characteristics

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

| Parameter                  | Test conditions         | Symbol                | Min | Typ | Max | Unit |
|----------------------------|-------------------------|-----------------------|-----|-----|-----|------|
| Forward voltage            | $I_F = 20 \text{ mA}$   | $V_F$                 |     | 1.6 | 1.9 | V    |
| Reverse voltage            | $I_R = 100 \mu\text{A}$ | $V_R$                 | 5   |     |     | V    |
| Radiant power <sup>1</sup> | $I_F = 20 \text{ mA}$   | $\Phi_e$              | 2.5 | 3.2 |     | mW   |
| Radiant power <sup>2</sup> | $I_F = 20 \text{ mA}$   | $\Phi_e$              |     | 6.0 |     | mW   |
| Peak wavelength            | $I_F = 20 \text{ mA}$   | $\lambda_p$           | 790 | 800 | 815 | nm   |
| Spectral bandwidth at 50%  | $I_F = 20 \text{ mA}$   | $\Delta\lambda_{0.5}$ |     | 30  |     | nm   |
| Switching time             | $I_F = 20 \text{ mA}$   | $t_r, t_f$            |     | 40  |     | ns   |

<sup>1</sup>Measured on bare chip on TO-18 header with *EPIGAP* equipment

<sup>2</sup>Measured on epoxy covered chip on TO-18 header with *EPIGAP* equipment

## Labeling

| Type       | Lot N° | $\Phi_e(\text{typ})$ [mW] | $V_F(\text{typ})$ [V] | Quantity |
|------------|--------|---------------------------|-----------------------|----------|
| ELC-800-25 |        |                           |                       |          |

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