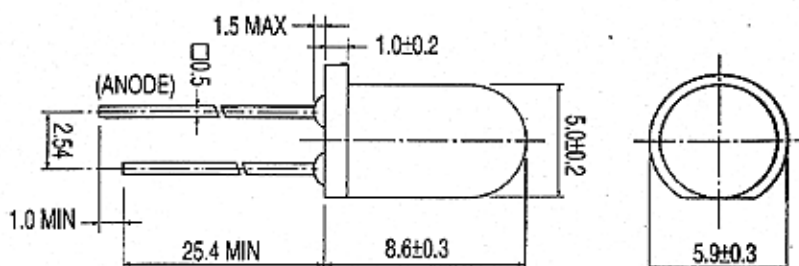


| Color | Type | Technology | Case |
|-------|--------------|--------------------------------------|-------------------|
| White | ELD-450W-523 | InGaN/Al ₂ O ₃ | 5 mm plastic lens |



Note: Special packages with standoff are available on request

Maximum Ratings

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

| Parameter | Test conditions | Symbol | Value | Unit |
|-----------------------------|---|-----------|-------------|--------------------|
| Forward current (DC) | | I_F | 30 | mA |
| Peak forward current | ($t_p \leq 50 \mu\text{s}$, $t_p/T = 1/2$) | I_{FM} | 100 | mA |
| Reverse voltage | $I_R = 10 \mu\text{A}$ | V_R | 5 | V |
| Power dissipation | | P_D | 120 | mW |
| Operating temperature range | | T_{amb} | -40 to +85 | $^{\circ}\text{C}$ |
| Storage temperature range | | T_{stg} | -40 to +100 | $^{\circ}\text{C}$ |
| Mass | | m | 0.33 | g |

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 | | 3.7 | 4.0 | V |
| Luminous intensity | $I_F = 20 \text{ mA}$ | I_V | 1000 | 4200 | 7000 | mcd |
| Luminous flux | $I_F = 20 \text{ mA}$ | Φ_V | 800 | 1000 | 1100 | lm |
| Radiant power | $I_F = 20 \text{ mA}$ | Φ_e | 2.9 | 3.4 | 3.7 | mW |
| Peak wavelength* | $I_F = 20 \text{ mA}$ | λ_p | | 450 | | nm |
| CIE coordinate range | $I_F = 20 \text{ mA}$ | X | 0.26 | | 0.38 | |
| | | Y | 0.26 | | 0.42 | |
| Color temperature | | | | 4200 | | K |
| Color rendering index | | | | 66 | | |
| Viewing angle | | φ | 18 | 20 | | deg. |

*of blue chip