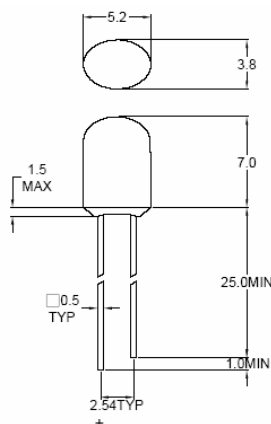


# LED lamp

# B-470-40x110BD/B

| Color | Type             | Technology | Case                             |
|-------|------------------|------------|----------------------------------|
| Blue  | B-470-40x110BD/B | InGaN/GaN  | plastic oval lens, blue diffused |



## Maximum Ratings at $T_a = 25^\circ\text{C}$

| Parameter               | Test conditions            | Symbol    | Value       | Unit             |
|-------------------------|----------------------------|-----------|-------------|------------------|
| Forward current         |                            | $I_F$     | 30          | mA               |
| Peak forward current    | Duty 1/10, $f \leq 10$ kHz | $I_{FP}$  | 100         | mA               |
| Power dissipation       |                            | $P_D$     | 120         | mW               |
| Reverse voltage         | $I_R = 10 \mu\text{A}$     | $V_R$     | 5           | V                |
| Reverse current         | $U_R = 5$ V                | $I_R$     | 50          | $\mu\text{A}$    |
| Electrostatic discharge | Human body model           | ESD       | 150         | V                |
| Operating temperature   |                            | $T_{opr}$ | -20 to +80  | $^\circ\text{C}$ |
| Storage temperature     |                            | $T_{stg}$ | -30 to +100 | $^\circ\text{C}$ |
| Soldering temperature   | 5 sec max, 2 mm from body  | $T_{sol}$ | 260         | $^\circ\text{C}$ |

## Optical and Electrical Characteristics at $T_a = 25^\circ\text{C}$

| Parameter           | Test conditions | Symbol          | Min | Typ      | Max | Unit |
|---------------------|-----------------|-----------------|-----|----------|-----|------|
| Forward voltage     | $I_F = 20$ mA   | $V_F$           |     | 3.5      | 4.0 | V    |
| Luminous intensity  | $I_F = 20$ mA   | $I_V$           |     | 330      | 450 | mcd  |
| Luminous flux       | $I_F = 20$ mA   | $\Phi_V$        |     | 350      |     | lm   |
| Radiant power       | $I_F = 20$ mA   | $\Phi_e$        |     | 7.4      |     | mW   |
| Peak wavelength*    | $I_F = 20$ mA   | $\lambda_p$     |     | 470      |     | nm   |
| Dominant wavelength | $I_F = 20$ mA   | $\lambda_d$     |     | 470      |     | nm   |
| Spectral halfwidth  | $I_F = 20$ mA   | $\Delta\lambda$ |     | 30       |     | nm   |
| Viewing angle       | $I_F = 20$ mA   | $\varphi$       |     | V40/H110 |     | deg. |

rev.01/07