



All dimensions are in millimeters / Tolerance is +/- 0.25 unless otherwise noted

Emitting Colour: blue

Chip: InGaN

Epoxy: water clear

RoHS compliant

Electrical / Optical Characteristics at Ta=25°C

| Symbol | Parameter | Min. | Typ. | Max. | Conditions |
|-----------------------|--------------------------|--------|--------|------|----------------------|
| $2\Theta_{1/2}$ | Viewing Angle | | 20° | | |
| I_v | Luminous Intensity | 180mcd | 450mcd | | $I_F = 20mA$ |
| λ_{peak} | Peak Wavelength | | 468nm | | $I_F = 20mA$ |
| λ_{dom} | Dominant Wavelength | | 470nm | | $I_F = 20mA$ |
| $\Delta\lambda_{1/2}$ | Spectral Line Half Width | | 25nm | | $I_F = 20mA$ |
| V_F | Forward Voltage | | 3.65V | 4.2V | $I_F = 20mA$ |
| I_R | Reverse Current | | | 10µA | $V_R = 5V$ |
| C | Capacitance | | 65pF | | $V_F = 0V; f = 1MHz$ |

Absolute Maximum Ratings at Ta=25°C

| Parameter | |
|-----------------------------|---------------------|
| Power Dissipation | 102mW |
| DC Forward Current | 30mA |
| Peak Forward Current (1) | 160mA |
| Reverse Voltage | 5V |
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -40°C to 85°C |
| Lead Solder Temperature (2) | 260°C for 3 seconds |

Notes: (1) 1/10 duty cycle, 0.1ms pulse width / (2) 2mm below package base



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T-1 (3mm) LED - blue

| | | | | | | |
|-----------|-------|-------|--------------------------------|--------------------|-------------------|-----------------------|
| Revision: | Date: | Name: | Scale: 3 : 1 | Drawn: J.J. | Ch'd: D.L. | Date: 17.10.05 |
| | | | Datasheet: CT301B12C-20 | | | |