



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

**Emitting Colour: green**

**Chip: InGaN**

**Epoxy: green diffused**

**RoHS compliant**

**Electrical / Optical Characteristics at Ta=25°C**

| Symbol                  | Parameter                | Min.    | Typ.    | Max. | Conditions                         |
|-------------------------|--------------------------|---------|---------|------|------------------------------------|
| $2\Theta_{1/2}$         | Viewing Angle            |         | 30°     |      |                                    |
| $I_v$                   | Luminous Intensity       | 1800mcd | 2800mcd |      | $I_F = 20\text{mA}$                |
| $\lambda_{\text{peak}}$ | Peak Wavelength          |         | 520nm   |      | $I_F = 20\text{mA}$                |
| $\lambda_{\text{dom}}$  | Dominant Wavelength      |         | 525nm   |      | $I_F = 20\text{mA}$                |
| $\Delta\lambda_{1/2}$   | Spectral Line Half Width |         | 35nm    |      | $I_F = 20\text{mA}$                |
| $V_F$                   | Forward Voltage          |         | 3.7V    | 4.1V | $I_F = 20\text{mA}$                |
| $I_R$                   | Reverse Current          |         |         | 10µA | $V_R = 5\text{V}$                  |
| C                       | Capacitance              |         | 45pF    |      | $V_F = 0\text{V}; f = 1\text{MHz}$ |

**Absolute Maximum Ratings at Ta=25°C**

| Parameter                   |                     |
|-----------------------------|---------------------|
| Power Dissipation           | 120mW               |
| DC Forward Current          | 30mA                |
| Peak Forward Current (1)    | 150mA               |
| 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 3/4 (5mm) LED - green**

|           |       |       |                     |                                |                   |                       |
|-----------|-------|-------|---------------------|--------------------------------|-------------------|-----------------------|
|           |       |       |                     | Drawn: <b>J.J.</b>             | Ch'd: <b>D.L.</b> | Date: <b>17.10.05</b> |
| Revision: | Date: | Name: | Scale: <b>3 : 1</b> | Datasheet: <b>CT501G48D-30</b> |                   |                       |