



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

**Emitting Color: yellow**

**Chip: InGaAlP**

**Lens Color: water clear**

**RoHS compliant**

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

| Symbol                | Parameter                | Min.  | Typ.   | Max. | Conditions           |
|-----------------------|--------------------------|-------|--------|------|----------------------|
| $2\Theta_{1/2}$       | Viewing Angle            |       | 140°   |      |                      |
| $I_v$                 | Luminous Intensity       | 50mcd | 100mcd |      | $I_F = 20mA$         |
| $\lambda_{peak}$      | Peak Wavelength          |       | 590nm  |      | $I_F = 20mA$         |
| $\lambda_{dom}$       | Dominant Wavelength      |       | 588nm  |      | $I_F = 20mA$         |
| $\Delta\lambda_{1/2}$ | Spectral Line Half Width |       | 28nm   |      | $I_F = 20mA$         |
| $V_F$                 | Forward Voltage          |       | 2.0V   | 2.5V | $I_F = 20mA$         |
| $I_R$                 | Reverse Current          |       |        | 10µA | $V_R = 5V$           |
| C                     | Capacitance              |       | 25pF   |      | $V_F = 0V; f = 1MHz$ |

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

| Parameter                    |                      |
|------------------------------|----------------------|
| Power Dissipation            | 125mW                |
| 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        |
| Reflow Soldering Temperature | 260°C for 10 seconds |

Notes: (1) 1/10 duty cycle, 0.1ms pulse width



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**SMD LED - yellow**

|           |       |       |                                |                    |                   |                       |
|-----------|-------|-------|--------------------------------|--------------------|-------------------|-----------------------|
| Revision: | Date: | Name: | Scale: <b>9 : 1</b>            | Drawn: <b>J.J.</b> | Ch'd: <b>D.L.</b> | Date: <b>06.04.06</b> |
|           |       |       | Datasheet: <b>CS130Y20C-E0</b> |                    |                   |                       |