



All dimensions are in millimeters / Tolerance is +/- 0.1 unless otherwise noted

Emitting Color: red

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 | | 120° | | |
| I_v | Luminous Intensity | 50mcd | 150mcd | | $I_F = 20mA$ |
| λ_{peak} | Peak Wavelength | | 650nm | | $I_F = 20mA$ |
| λ_{dom} | Dominant Wavelength | | 635nm | | $I_F = 20mA$ |
| $\Delta\lambda_{1/2}$ | Spectral Line Half Width | | 28nm | | $I_F = 20mA$ |
| V_F | Forward Voltage | | 1.95V | 2.5V | $I_F = 20mA$ |
| I_R | Reverse Current | | | 10µA | $V_R = 5V$ |
| C | Capacitance | | 35pF | | $V_F = 0V; f = 1MHz$ |

Absolute Maximum Ratings at Ta=25°C

| Parameter | |
|------------------------------|----------------------|
| Power Dissipation | 170mW |
| DC Forward Current | 30mA |
| Peak Forward Current (1) | 185mA |
| 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 - red

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|-----------|-------|-------|----------------------|--------------------------------|-------------------|-----------------------|
| | | | | Drawn: J.J. | Ch'd: D.L. | Date: 03.04.06 |
| Revision: | Date: | Name: | Scale: 10 : 1 | Datasheet: CS025R56C-C0 | | |