



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		$I_F = 20mA$
$\lambda_{peak}$	Peak Wavelength		650nm		$I_F = 20mA$
$\lambda_{dom}$	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**

Revision:	Date:	Name:	Scale: <b>10 : 1</b>	Drawn: <b>J.J.</b>	Ch'd: <b>D.L.</b>	Date: <b>04.04.06</b>
			Datasheet: <b>CS020R56C-C0</b>			