



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

Emitting Color: red

Chip: GaAsP / GaP

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	4mcd	12mcd		$I_F = 20\text{mA}$
λ_{peak}	Peak Wavelength		627nm		$I_F = 20\text{mA}$
λ_{dom}	Dominant Wavelength		625nm		$I_F = 20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Half Width		45nm		$I_F = 20\text{mA}$
V_F	Forward Voltage		2.0V	2.5V	$I_F = 20\text{mA}$
I_R	Reverse Current			10µA	$V_R = 5\text{V}$
C	Capacitance		15pF		$V_F = 0\text{V}; f = 1\text{MHz}$

Absolute Maximum Ratings at Ta=25°C

Parameter	
Power Dissipation	105mW
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
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

				Drawn: J.J.	Ch'd: D.L.	Date: 04.04.06
Revision:	Date:	Name:	Scale: 10 : 1	Datasheet: CS020R12C-C0		