



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

Emitting Color: red

Chip: GaAlAs

Lens Color: red diffused

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	36mcd	70mcd		$I_F = 20\text{mA}$
λ_{peak}	Peak Wavelength		660nm		$I_F = 20\text{mA}$
λ_{dom}	Dominant Wavelength		640nm		$I_F = 20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Half Width		20nm		$I_F = 20\text{mA}$
V_F	Forward Voltage		1.85V	2.5V	$I_F = 20\text{mA}$
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	100mW
DC Forward Current	30mA
Peak Forward Current (1)	155mA
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: 9 : 1	Drawn: J.J.	Ch'd: D.L.	Date: 06.04.06
			Datasheet: CS130R14D-E0			