



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

Emitting Colour: red

Chip: GaAlAs

Epoxy: red diffused

RoHS compliant

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Min.	Typ.	Max.	Conditions
$2\theta_{1/2}$	Viewing Angle		30°		
I_v	Luminous Intensity	900mcd	1500mcd		$I_F = 20\text{mA}$
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
Lead Solder Temperature (2)	260°C for 3 seconds

Notes: (1) 1/10 duty cycle, 0.1ms pulse width / (2) 2mm below package base



CML Technologies GmbH & Co. KG
D-67098 Bad Dürkheim

T-1 3/4 (5mm) LED - red

Revision:	Date:	Name:	Scale: 3 : 1	Drawn: J.J.	Ch'd: D.L.	Date: 17.10.05
			Datasheet: CT501R48D-30			