

## LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

## Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	5.6	19		mcd	I <sub>F</sub> = 10mA Note 1,4
Viewing Angle	<b>2</b> θ 1/2		16		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λр		655		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λα		651		nm	Note 3
Spectral Line Half-Width	Δλ		24		nm	
Forward Voltage	VF		1.7	2.0	v	IF = 20mA
Reverse Current	Ir			100	$\mu \mathbf{A}$	$V_R = 5V$
Capacitance	С		30		pF	$V_F = 0$ , $f = 1MHz$

Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission International De L'Eclairage) eye-response curve.

- 2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength,  $\lambda_d$  is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4. The Iv guarantee should be added  $\pm$  15%.

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## Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	200	mA
Continuous Forward Current	40	mA
Derating Linear From 50°C	0.5	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-55°C to + 100°C	
Storage Temperature Range	e Temperature Range -55°C to + 100°C	
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds	

Participant's	name		
		21	D 1.

#### UNIVERSITY OF CALIFORNIA, SAN DIEGO

Name of Class or Activity:	MAE3/156A - Design Studio	

#### Waiver of Liability, Assumption of Risk, and Indemnity Agreement

Walver of Diability,	ASSUMITORIO	d of Risk, and indealinity Agreement
Waiver: In consideration of being perm		
use of the MAE Design Studio		
hereinafter called "The Activity", I, for a	myself, my h	eirs, personal representatives or assigns, do hereby
release, waive, discharge, and covenar	nt not to sue	The Regents of the University of California, its officers,
		all claims including the negligence of The Regents of
		s and agents, resulting in personal injury, accidents or
		from, but not limited to, participation in The Activity.
innesses (including death), and property	1033 at 13111g	non, out not minted to, participation in The Activity.
Signature of Participant	Date	Signature of Parent/Guardian of Minor Date
eliminated regardless of the care taken t but the risks range from 1) minor injurie	o avoid injures such as sc	carries with it certain inherent risks that cannot be ies. The specific risks vary from one activity to another, ratches, bruises, and sprains 2) major injuries such as eytacks, and concussions to 3) catastrophic injuries
	-	know, understand, and appreciate these and other sert that my participation is voluntary and that I
		e to INDEMNIFY AND HOLD The Regents of the
		all claims, actions, suits, procedures, costs, expenses,
		ought as a result of my involvement in The Activity and
to reimburse them for any such expense	s incurred.	
agreement is intended to be as broad an	d inclusive a	agrees that the foregoing waiver and assumption of risks is permitted by the law of the State of California and I that the balance shall, notwithstanding, continue in full
		his waiver of liability, assumption of risk, and indemnity
		nd that I am giving up substantial rights, including
		ne agreement freely and voluntarily, and intend by my
signature to be a complete and uncon	ditional rele	ase of all liability to the greatest extent allowed by law.
Signature of Participant	Date	Signature of Parent/Guardian of Minor Date
· ·		Participant's Age (if minor)
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☐ I have read the Safety Guidelines for	or this lab	
☐ I have had the Safety Guidelines ex	plained to m	e by the lab/shop instructor or staff
Simply of Posticiant	D-4-	Cimpature of Depost/Consider - CM: Date
Signature of Participant	Date	Signature of Parent/Guardian of Minor Date Participant's Age (if minor)
		reverbance time (it minor)

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