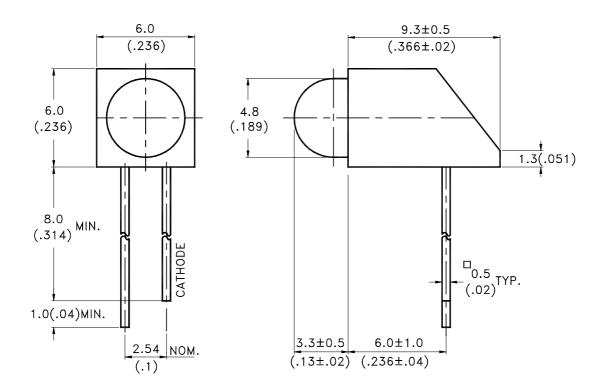


Property of Lite-On Only

Features

- * Designed for ease in circuit board assembly.
- * Black case enhance contrast ratio.
- * Solid state light source.
- * Reliable and rugged.

Package Dimensions



Part No.		Source		
LTL-	Lens	Color		
10253WP	Yellow Diffused	Yellow		

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. The holder color is black.
- 4. The holder raw material is PC.
- 5. The LED lamp is LTL-10253WP.

Part No.: LTL-553-11 Page: of 4



Property of Lite-On Only

Absolute Maximum Ratings at Ta=25℃

Parameter	Maximum Rating	Unit		
Power Dissipation	60	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA		
Continuous Forward Current	20	mA		
Derating Linear From 50°C	0.25	mA/°C		
Reverse Voltage	5	V		
Operating Temperature Range	-55°C to + 100°C			
Storage Temperature Range	-55°C to + 100°C			
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds			

Part No.: LTL-553-11 Page: of 4



Property of Lite-On Only

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Part No. LTL-	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	553-11	3.7	12.6		mcd	$I_F = 10 \text{mA}$ Note 1,4	
Viewing Angle	2 0 1/2	553-11		60		deg	Note 2 (Fig.6)	
Peak Emission Wavelength	λp	553-11		585		nm	Measurement @Peak (Fig.1)	
Dominant Wavelength	λd	553-11		588		nm	Note 3	
Spectral Line Half-Width	Δλ	553-11		35		nm		
Forward Voltage	V_{F}	553-11		2.1	2.6	V	$I_F = 20 \text{mA}$	
Reverse Current	IR	553-11			100	μ A	$V_R = 5V$	
Capacitance	С	553-11		15		рF	$V_F = 0$, $f = 1MHz$	

Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE 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, λ d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4. Iv needs $\pm 15\%$ additionary for guaranteed limits.

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Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

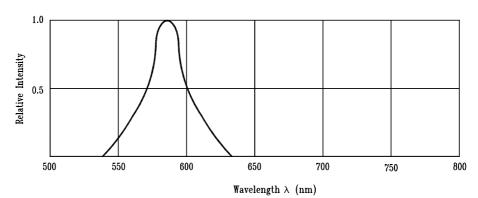


Fig.1 Relative Intensity vs. Wavelength

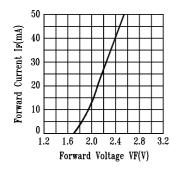


Fig.2 Forward Current vs. Forward Voltage

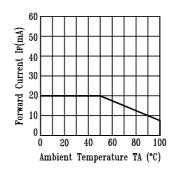


Fig.3 Forward Current Derating Curve

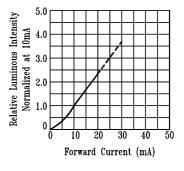


Fig.4 Relative Luminous Intensity vs. Forward Current

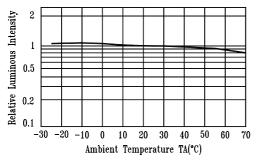


Fig.5 Luminous Intensity vs. Ambient Temperature

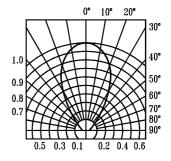


Fig.6 Spatial Distribution

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