

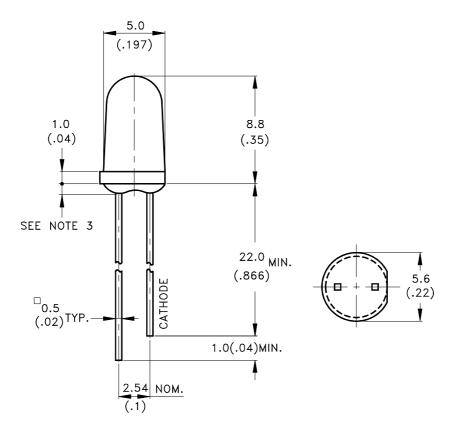
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * Low power consumption.
- * High efficiency.
- * Versatile mounting on p.c. board or panel.
- * I.C. compatible/low current requirement.
- * T-1 3/4 type package.

Package Dimensions



Part No.	Lens	Source Color		
LTL353UBJ	White Diffused	Blue		

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

Part No.: LTL353UBJ 4 Page: of



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Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating	Unit	
Power Dissipation	135	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	70	mA	
Continuous Forward Current	30	mA	
Derating Linear From 30°C	0.5	mA/°C	
Reverse Voltage	5	V	
Electrostatic Discharge Threshold(HBM) ^{Note A}	1000	V	
Operating Temperature Range	-20°C to +80°C		
Storage Temperature Range	-30°C to + 100°C		
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds		

Note A:

HBM: Human Body Model. Seller gives no other assurances regarding the ability of Products to withstand ESD.

Part No.: LTL353UBJ Page: 2 of 4



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Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	12.6	25		mcd	$I_F = 20 \text{mA}$ Note 1,5
Viewing Angle	2 heta 1/2		40		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λР		428		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd		466		nm	Note 3
Spectral Line Half-Width	Δλ		65		nm	
Forward Voltage	V_{F}		3.8	4.5	V	$I_F = 20 \text{mA}$
Reverse Current	$I_{ m R}$			100	μ A	$V_R = 5V$

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 classification code is marked on each packing bag.
- 5. The Iv guarantee should be added $\pm 15\%$ tolerance.
- 6. Precautions in handling:
 - When soldering, leave 2mm of minimum clearance from the resin to the soldering point.
 - Dipping the resin to solder must be avoided.
 - Correcting the soldered position after soldering must be avoided.
 - In soldering, do not apply any stress to the lead frame particularly when heated.
 - When forming a lead, make sure not to apply any stress inside the resin.
 - Lead forming must be done before soldering.
 - It is necessary to cut the lead frame at normal temperature.
- 7. Caution in ESD:

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Part No.: LTL353UBJ	Page: 3	of	4	
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Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

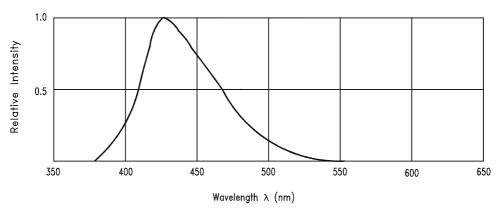
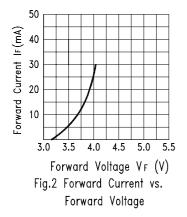
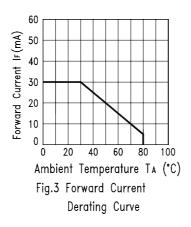
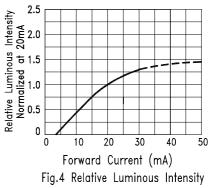


Fig.1 Relative Intensity vs. Wavelength







vs. Forward Current

30°

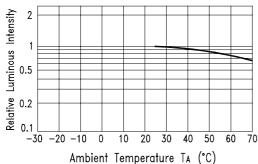
40°

50°

70°

80°

10° 20°



Ambient Temperature

0.5 0.3 0.1 0.2 0.4 0.6 Fig.5 Luminous Intensity vs.

1.0

Fig.6 Spatial Distribution

Part No.: LTL353UBJ Page: 4 of 4