

# IUWC2381

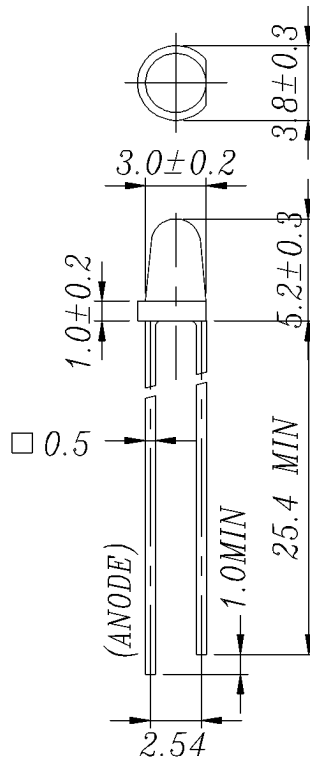
Page 1 of 2



This lamp is a T-1, 3 mm Round. It is designed for applications requiring higher brightness. This white LED is fabricated using a blue LED and a phosphor which emits a yellow fluorescence when exposed to blue light. The mixture of blue light and yellow light results in a white emission.



RoHS Compliant  
Aug 2004



PART NO.	Emitted Color	Lens Color
IUWC2381	White	Water Clear

\* Specifications subject to change without notice. Dimensions are in mm±0.25 unless stated otherwise.

IDEA, Inc., 1351 Titan Way, Brea, CA 92821 Ph:714-525-3302, 800-LED-IDEA; Fax: 714-525-3304 0507

**Absolute Maximum Ratings at  $T_a = 25\text{ }^\circ\text{C}$** 

Parameter	Symbol	Rating	Units
Forward Current	$I_F$	30	mA
Operating Temperature	$T_{opr}$	-20 to +80	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-30 to +100	$^\circ\text{C}$
Soldering Temperature	$T_{sol}$	$260 \pm 5$	$^\circ\text{C}$
Electrostatic Discharge	ESD	1000	V
Power Dissipation	$P_d$	120	mW
Peak Forward Current (Duty 1/10 @ 1KHz)	$I_F$ (Peak)	100	mA
Reverse Voltage	$V_R$	5	V

**Electronic Optical Characteristics**

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
Luminous Intensity	$I_V$	150	300	—	mcd	$I_F = 20\text{ mA}$
Viewing Angle	$2\theta_{1/2}$	—	25	—	deg	$I_F = 20\text{ mA}$
Chromaticity Coordinates <sup>a</sup>	x	—	0.30	—	—	$I_F = 20\text{ mA}$
	y	—	0.31	—	—	
Forward Voltage	$V_F$	—	3.5	4.0	V	$I_F = 20\text{ mA}$
Reverse Current	$I_R$	—	—	10	$\mu\text{A}$	$V_R = 5\text{ V}$

a. The C.I.E. 1931 chromaticity diagram.