

查询"LP377TYL1-40G"供应商 Cree® P4 LED Model # LP377TYL1-40G Data Sheet

40-degree, 7.6 x 7.6 mm LED lamp in amber color with water-transparent lens and stopper

Applications

- Advertising Signs
- Indicators
- Traffic Signals
- Automotive Lighting

Absolute Maximum Ratings ($T_A = 25^{\circ}C$)

Items	Symbol	Absolute Maximum Rating	Unit	
Forward Current Note 2	I _F	70	mA	
Peak Forward Current Note 1	I _{FP}	200	mA	
Reverse Voltage	V _R	5	V	
Power Dissipation	P _D	220	mW	
Operation Temperature	T _{opr}	-40 ~ +100	°C	
Storage Temperature	T _{stg}	-40 ~ +100	°C	
Lead Soldering Temperature	T _{sol}	Max. 260°C for 3 sec. max. (3 mm from the base of the epoxy bulb)		

Notes:

- 1. Pulse width ≤ 0.1 msec, duty $\leq 1/10$.
- 2. A heat sink is recommended if the device is operated at ambient temperatures higher than 25°C.

Typical Electrical & Optical Characteristics $(T_{A} = 25^{\circ}C)$

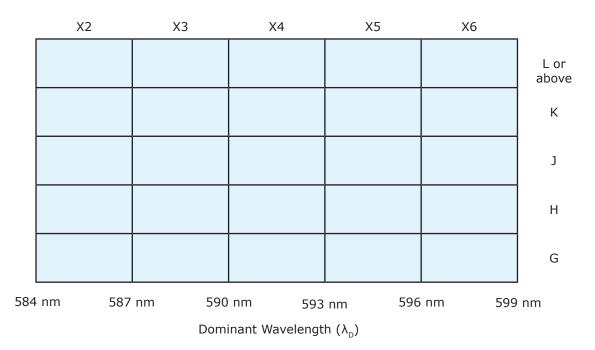
Characteristics	Symbol	Condition	Unit	Minimum	Typical	Maximum
Forward Voltage	V _F	I _F = 70 mA	V		2.6	3.2
Reverse Current	I _R	$V_{R} = 5 V$	μΑ			100
Dominant Wavelength	$\lambda_{\rm D}$	I _F = 70 mA	nm	584	591	599
Luminous Flux	Φ _v	$I_{F} = 70 \text{ mA}$	mlm	2000	3200	
50% Power Angle	201/2	$I_{F} = 70 \text{ mA}$	deg		40	

CREE LED Light 查询"LP377TYL1-40G"供应商 Standard Bins for LP377TYL1-40G (I_F = 70 mA)

Lamps are sorted to luminous flux (Φ_v), V_F and dominant wavelength (λ_D) bins shown.

Orders for LP377TYL1-40G may be filled with any or all bins contained as below.

All luminous flux (Φ_v), V_F and dominant wavelength (λ_D) values shown and specified are at I_F = 70 mA.



Rank	G	Н	J	К
Luminous Flux	2000-3000 mlm	2500-3600	3000-4200 mlm	3500-4800 mlm

Forward Voltage (V_F)

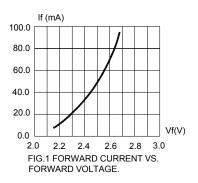
Rank	V4	V5	V6	V7	V8
Voltage	2.2-2.4 V	2.4-2.6 V	2.6-2.8 V	2.8-3.0 V	3.0-3.2 V

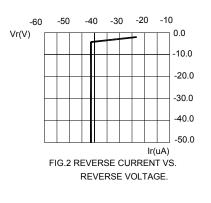
Important Notes:

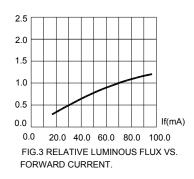
- 1. All ranks will be included per delivery; rank ratio will be based on the dice distribution.
- 2. No tolerance of measurement of luminous flux.
- 3. Tolerance of measurement of dominant wavelength is ± 1 nm.
- 4. Tolerance of measurement of V_{F} is ±0.05 V.
- 5. Packaging methods are available for selection; please refer to the "Cree LED Lamp Packaging Standard" document.
- 6. Please refer to the "Cree LED Lamp Reliability Test Standards" document for reliability test conditions.
- 7. Please refer to the "Cree LED Lamp Soldering & Handling" document for information about how to use this LED product safely.

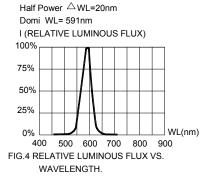
Cree, Inc. 4600 Silicon Drive Durham, NC 27703 USA Tel: +1.919.313.5300 Fax: +1.919.313.5778 www.cree.com/ledlamps

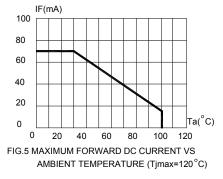


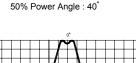












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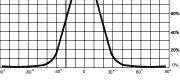


FIG.6 FAR FIELD PATTERN

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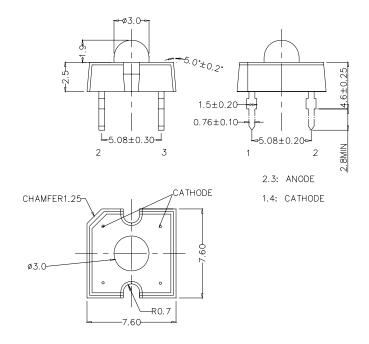
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All dimensions are in mm. Tolerance is ± 0.25 mm unless otherwise noted.

An epoxy meniscus may extend about 1.5 mm down the leads.

Burr around bottom of epoxy may be 0.5 mm max.



Notes

RoHS Compliance

The levels of environmentally sensitive, persistent biologically toxic (PBT), persistent organic pollutants (POP), or otherwise restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), as amended through April 21, 2006.

Vision Advisory Claim

Users should be cautioned not to stare at the light of this LED product. The bright light can damage the eye.

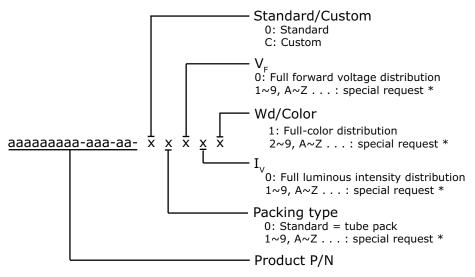
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Cree LED lamps are tested and sorted into performance bins. A bin is specified by ranges of color, forward voltage, and brightness. Sorted LEDs are packaged for shipping in various convenient options. Please refer to the "Cree LED Lamp Packaging Standard" document for more information about shipping and packaging options.

Cree LEDs are sold by order codes in combinations of bins called kits. Order codes are configured in the following manner:



* Contact your Cree sales representative for ordering information.

Standard Available Kits*

Kit Number	Description			
LP377TYL1-40G-00001	P4 40 Amber 591nm, FULL RANK, Tube Pack			
LP377TYL1-40G-00011	P4 40 Amber 591nm, H or above, Tube Pack			

* Please contact your Cree representative about the availability of non-standard kits.

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