

4 - PIN POWER LED

PACKAGE DIMENSIONS C. 0.050 (1.25) C - CATHODE A - ANODE Ø 0.126 (3.20) Ø 0.110 (2.80) R0.035 (0.90) R0.020 (0.50) 0.075 (1.90) 0.118 (3.00) 0.079 (2.00) 0.181 (4.60) 0.303 (7.70) 0.287 (7.50) 0.020 (0.50) 0.069 (1.75) 0.053 (1.35) 0.024 (0.60) 0.033 (0.85)

NOTES:

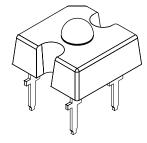
- 1. Dimensions for all drawings are in inches (mm).
- 2. Lead spacing is measured where the leads emerge from the package.
- 3. Protruded resin under the flange is 0.059" (1.5 mm) max.
- 4. All tolerances are ± 0.10 " (0.25 mm) unless otherwise specified.

WHITE

QTLP321C-W

FEATURES

- InGaN (Indium Gallium Nitride) technology
- Fluorescent light emission
- Reduced thermal resistance
- Tube packaging



DESCRIPTION

This low profile, 4-pin LED provides a more uniform and evenly distributed illumination than existing LED designs. Its unique optical package enables designers to utilize fewer LEDs while achieving superior lighting performance.

APPLICATIONS

- · Exterior automotive lighting
- · Area displays
- Backlighting
- Message panels

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise specified)			
Parameter	Symbol	Rating	Unit
Operating Temperature	T _{OPR}	-25 to +80	°C
Storage Temperature	T _{STG}	-30 to +100	°C
Lead Soldering Time	T _{SOL}	260 for 5 sec	°C
Continuous Forward Current	I _F	20	mA
Peak Forward Current	ı	100	mA
(f = 100 Hz, Duty Factor = 1/10)	l _F	100	
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	120	mW

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ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)			
Part Number	QTLP321C-W	Condition	
Flux - $\Phi_{ m V}$ (mlm)		I _F = 20 mA	
Minimum	250		
Typical	500		
Chromatic Coordinates - Typical	X = 0.32, Y = 0.32	I _F = 20 mA	
Peak Wavelength (nm)	550	I _F = 20 mA	
Forward Voltage V _F (V):		I _F = 20 mA	
Typical	3.5		
Maximum	4.0		
Viewing Angle (°)	50	I _F = 20 mA	

TYPICAL PERFORMANCE CURVES

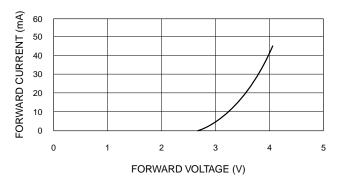


Fig. 1 Forward Voltage vs. Forward Current

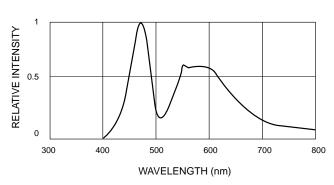


Fig. 3 Relative Intensity vs. Wavelength

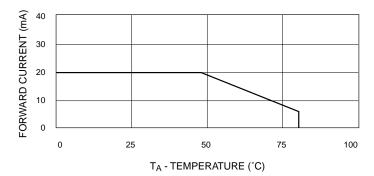


Fig. 2 Forward Current vs. Ambient Temperature

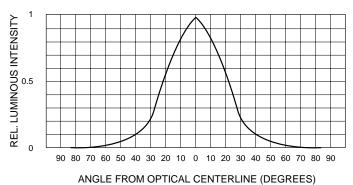


Fig. 4 Rel. Luminous Intensity

vs. Angular Displacement

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