

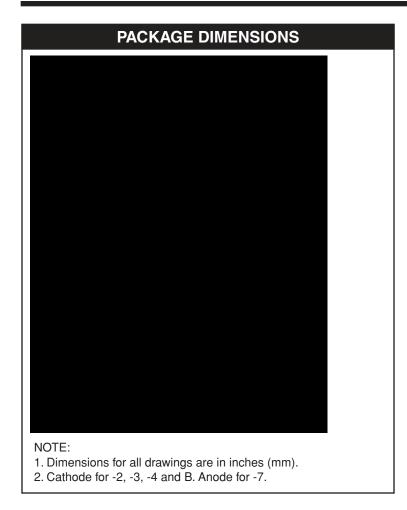
QTLP600C-2 HER

QTLP600C-3 Yellow

QTLP600C-4 Green

QTLP600C-7 AlGaAs Red

QTLP600C-B Blue



### **APPLICATIONS**

- · Keypad backlighting
- · Push-button backlighting
- LCD backlighting

#### **DESCRIPTION**

These surface mount chip LEDs are designed to fit industry standard footprint. Small size, low profile and wide viewing angle make these LEDs ideal choices for backlighting applications and panel illumination.

#### **FEATURES**

- Miniature footprint 1.6(L) X 0.8(W) X 0.8(H) mm
- Wide viewing angle of 100°
- Water clear optics
- · Moisture-proof packaging
- Available in 0.315" (8mm) width tape on 7" (178mm) diameter reel; 2,000 units per reel



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<b>ABSOLUTE MAXIMUM RATINGS</b> (T <sub>A</sub> =25°C Unless otherwise specified)										
Parameter	Symbol	QTLP600C								
		-2	-3	-4	-7	-В	Units			
Continuous Forward Current	I <sub>F</sub>	30	30	30	30	30	mA			
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I <sub>FM</sub>	160	160	160	180	100	mA			
Reverse Voltage (I <sub>R</sub> = 10 μA)	V <sub>R</sub>	5	5	5	5	5	V			
Power Dissipation	P <sub>D</sub>	84	84	84	72	135	mW			
Operating Temperature	T <sub>OPR</sub>	-40 to +85								
Storage Temperature	T <sub>STG</sub>	-40 to +90								
Lead Soldering Time	T <sub>SOL</sub>	260 for 5 sec								

ELECTRICAL / OPTICAL CHARACTERISTICS (T <sub>A</sub> =25°C)											
Part Number	Symbol	QTLP600C					Condition				
		-2	-3	-4	-7	-В	Condition				
Luminous Intensity (mcd)											
Minimum	- I <sub>V</sub>	5	5	9	10	15	I <sub>F</sub> = 20mA				
Typical		9	9	18	20	20					
Forward Voltage (V)											
Maximum	V <sub>F</sub>	2.8	2.8	2.8	2.4	4.5	I <sub>F</sub> = 20mA				
Typical		2.0	2.0	2.1	1.9	3.8					
Wavelength (nm)											
Peak	$\lambda_{P}$	635	585	565	660	430	I <sub>F</sub> = 20mA				
Dominant	$\lambda_{D}$	630	590	570	645	465					
Spectral Line Half Width (nm)	Δλ	45	35	30	20	65	I <sub>F</sub> = 20mA				
Viewing Angle (°)	2O <sub>1/2</sub>	100	100	100	100	100	I <sub>F</sub> = 20mA				



QTLP600C-2 HER

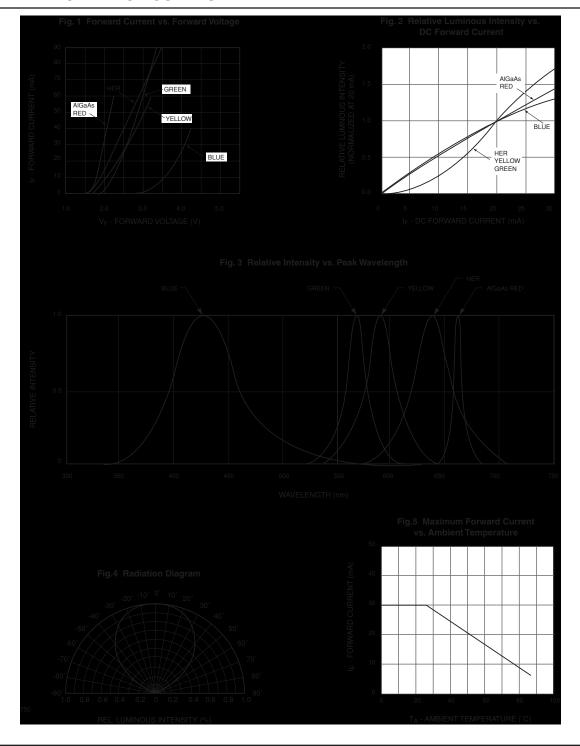
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### TYPICAL PERFORMANCE CURVES





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RECOMMENDED PRINTED CIRCUIT BOARD PATTERN





QTLP600C-2 HER

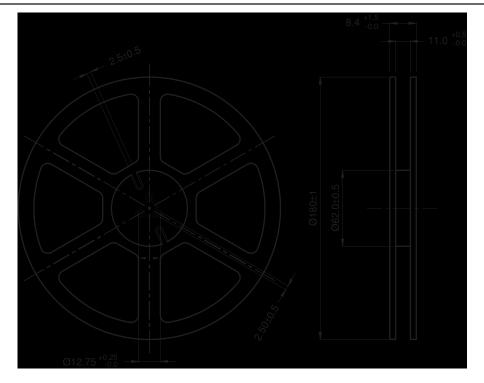
QTLP600C-3 Yellow

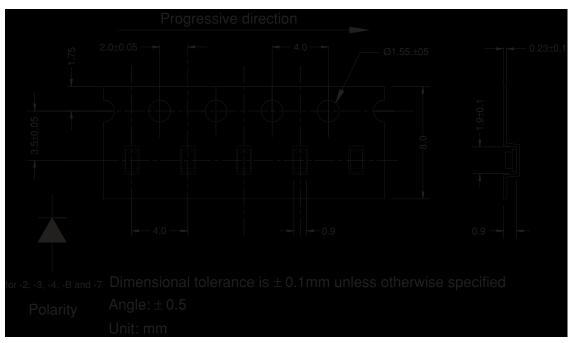
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### TAPE AND REEL DIMENSIONS







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QTLP600C-B Blue

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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.