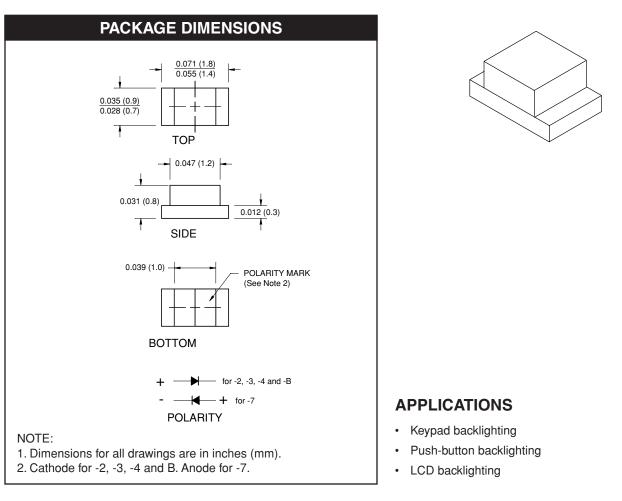


QTLP600C-2 HER QTLP600C-7 AlGaAs Red

QTLP600C-3 Yellow

QTLP600C-4 Green

QTLP600C-B Blue



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



QTLP600C-2 HER

QTLP600C-3 Yellow

QTLP600C-4 Green

QTLP600C-7 AlGaAs Red

QTLP600C-B Blue

ABSOLUTE MAXIMUM RATINGS (T _A =25°C Unless otherwise specified)										
Parameter	Symbol	QTLP600C								
		-2	-3	-4	-7	-В	- Units			
Continuous Forward Current	١ _F	30	30	30	30	30	mA			
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	160	160	160	180	100	mA			
Reverse Voltage ($I_R = 10 \ \mu A$)	V _R	5	5	5	5	5	V			
Power Dissipation	PD	84	84	84	72	135	mW			
Operating Temperature	T _{OPR}	-40 to +85								
Storage Temperature	T _{STG}	-40 to +90								
Lead Soldering Time	T _{SOL}	260 for 5 sec								

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)										
Part Number	Cumbal									
	Symbol	-2	-3	-4	-7	-В	Condition			
Luminous Intensity (mcd)										
Minimum		5	5	9	10	15	I _F = 20mA			
Typical	I _V	9	9	18	20	20				
Forward Voltage (V)										
Maximum	V _F	2.8	2.8	2.8	2.4	4.5	I _F = 20mA			
Typical	v F	2.0	2.0	2.1	1.9	3.8				
Wavelength (nm)										
Peak	λ _P	635	585	565	660	430	- I _F = 20mA			
Dominant	λ _D	630	590	570	645	465				
Spectral Line Half Width (nm)	Δλ	45	35	30	20	65	I _F = 20mA			
Viewing Angle (°)	20 _{1/2}	100	100	100	100	100	I _F = 20mA			



QTLP600C-2 HER

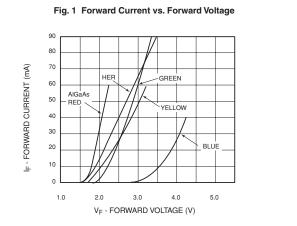
QTLP600C-3 Yellow

QTLP600C-4 Green

QTLP600C-7 AlGaAs Red

QTLP600C-B Blue

TYPICAL PERFORMANCE CURVES



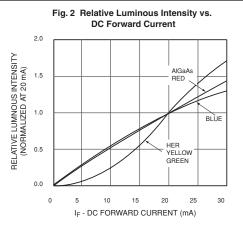
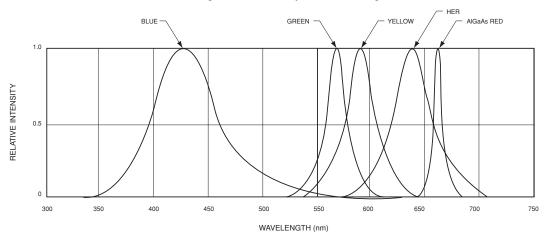
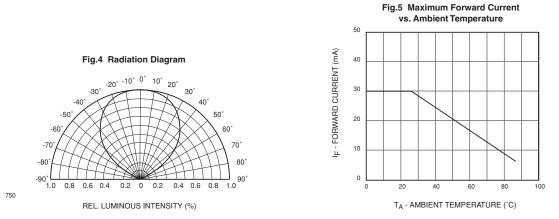


Fig. 3 Relative Intensity vs. Peak Wavelength







QTLP600C-2 HER

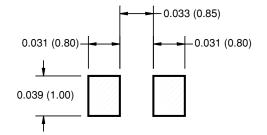
QTLP600C-3 Yellow

QTLP600C-4 Green

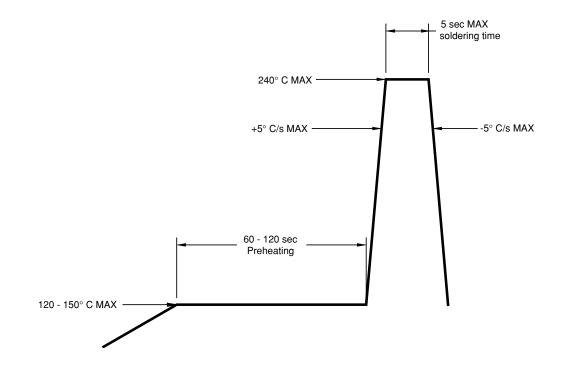
QTLP600C-7 AlGaAs Red

QTLP600C-B Blue

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE





QTLP600C-2 HER

QTLP600C-3 Yellow

QTLP600C-4 Green

QTLP600C-7 AlGaAs Red

QTLP600C-B Blue

TAPE AND REEL DIMENSIONS 8.4 +1.5 11.0 +0.5 2.5±0.5 Ø62.0±0.5 Ø180±1 2.50205 Ø12.75^{+0.25}-0.0 Progressive direction 2.0±0.05 4.0 0.23±0.1 Ø1.55.±05 -1.751.9±0.1 3.5±0.05 8. 0 4 - 4.0 -----0.9 0.9 ----

for -2, -3, -4, -B and -7 Dimensional tolerance is ± 0.1mm unless otherwise specified Polarity Angle: ± 0.5 Unit: mm



QTLP600C-2 HER

QTLP600C-3 Yellow

QTLP600C-4 Green

QTLP600C-7 AlGaAs Red

QTLP600C-B Blue

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