SUR STANDAF

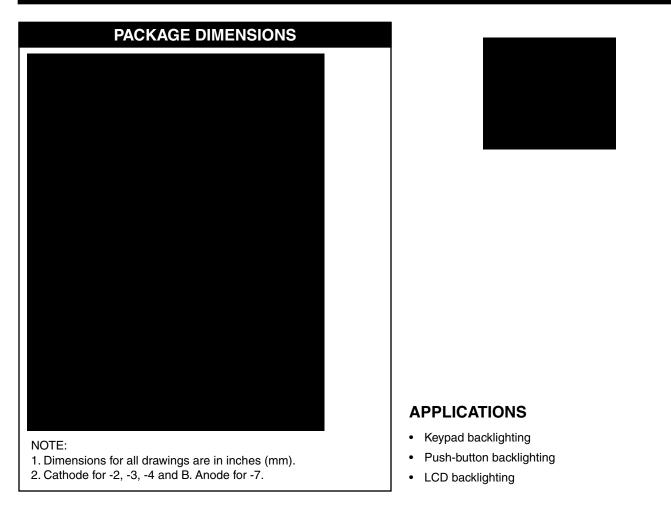
SURFACE MOUNT LED LAMP STANDARD BRIGHT 0603 (0.8 mm Height) QTLP600C

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



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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	Symbol		Condition							
	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	₩ VF	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			

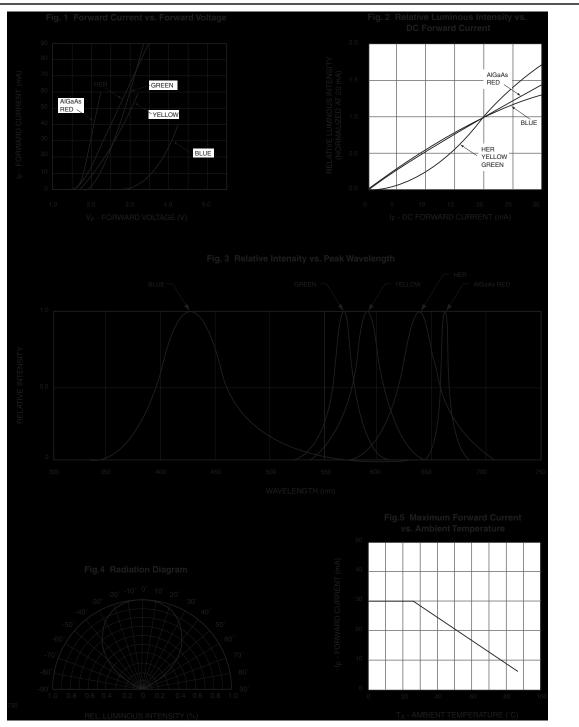
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TYPICAL PERFORMANCE CURVES





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RECOMMENDED PRINTED CIRCUIT BOARD PATTERN

RECOMMENDED IR REFLOW SOLDERING PROFILE



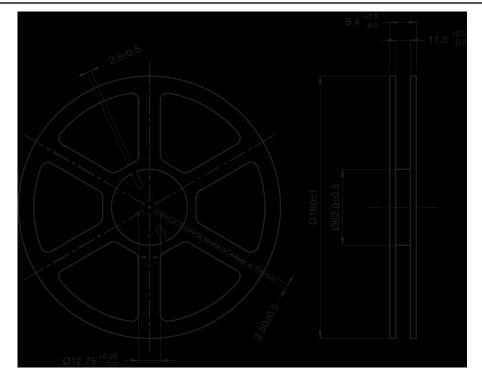
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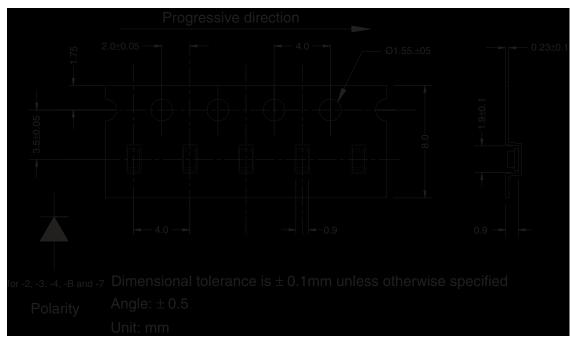
QTLP600C-3 Yellow

QTLP600C-4 Green

QTLP600C-B Blue

TAPE AND REEL DIMENSIONS







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QTLP600C-B Blue

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- 2. 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.