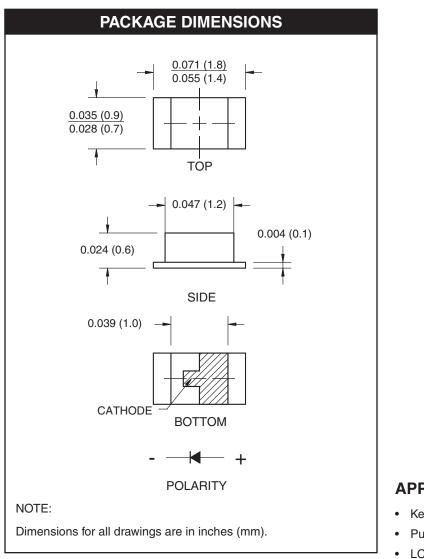


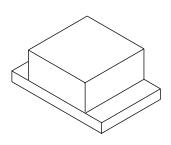
SURFACE MOUNT LED LAMP

0603 (0.6 mm Height)

Low V_F Blue



QTLP601C-EB



APPLICATIONS

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

DESCRIPTION

This surface mount chip LED is designed to fit industry standard footprint. Small size, low profile and wide viewing angle make this LED an ideal choice for backlighting applications and panel illumination. This device utilizes an InGaN/Sapphire blue LED.

FEATURES

- Miniature footprint 1.6(L) X 0.8(W) X 0.6(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



SEMICONDUCTOR®

SURFACE MOUNT LED LAMP 0603 (0.6 mm Height)

Low V_F Blue

QTLP601C-EB

ABSOLUTE MAXIMUM RATINGS (T _A	IAXIMUM RATINGS (T _A = 25°C unless otherwise specified)		
Parameter	Symbol	Rating	Unit
Operating Temperature	T _{OPR}	-40 to +85	°C
Storage Temperature	T _{STG}	-40 to +90	°C
Lead Soldering Time	T _{SOL}	260 for 5 sec	°C
Continuous Forward Current	I _F	30	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	100	mA
Reverse Voltage	V _R	5	V
Power Dissipation	PD	80	mW

Part Number	QTLP601CEB.7778D	Condition
Luminous Intensity (mcd)		
Bin I1	8 - 16	I _F = 5 mA
Bin I2	13 - 26	
Forward Voltage (V)		
Bin V1	2.75 - 2.95	I _F = 5 mA
Bin V2	2.95 - 3.15	
Dominant Wavelength (nm)		
Bin W1	465 - 470	I _F = 5 mA
Bin W2	470 - 475	
Bin W3	475 - 480	
Spectral Line Half Width (nm)	35	I _F = 5 mA
/iewing Angle (°)	120	I _F = 5 mA

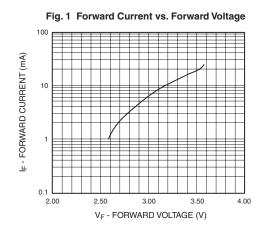


SURFACE MOUNT LED LAMP 0603 (0.6 mm Height)

Low V_F Blue

QTLP601C-EB

TYPICAL PERFORMANCE CURVES



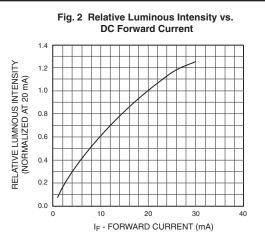
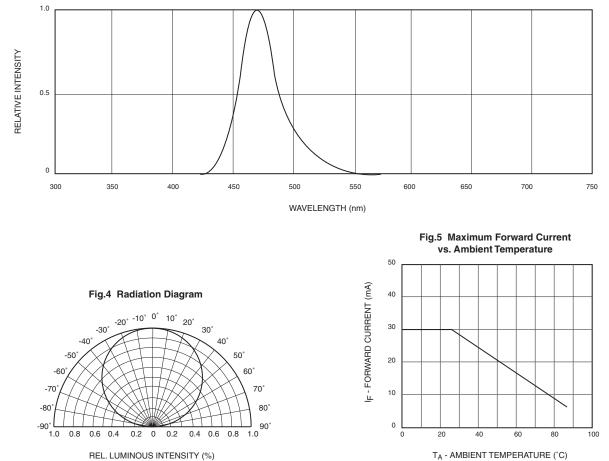


Fig. 3 Relative Intensity vs. Peak Wavelength



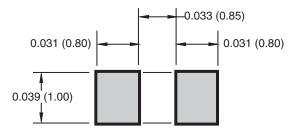


SURFACE MOUNT LED LAMP 0603 (0.6 mm Height)

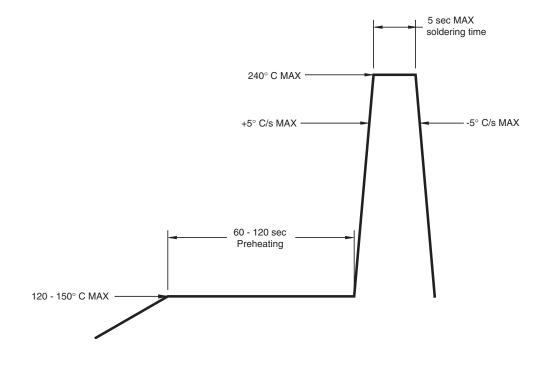
Low V_F Blue

QTLP601C-EB

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE



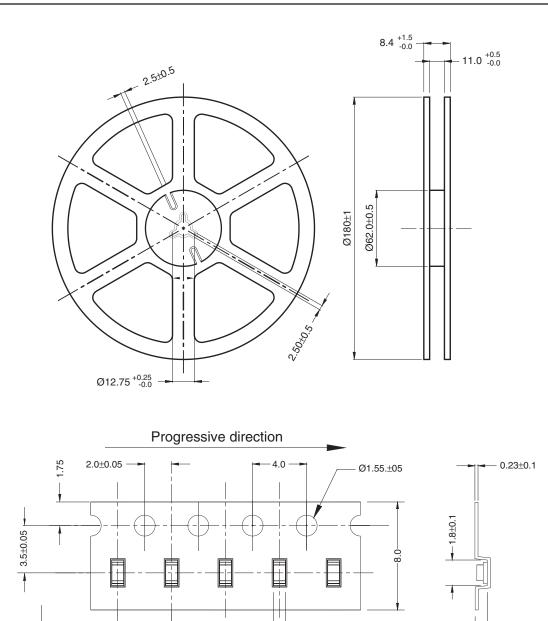


SURFACE MOUNT LED LAMP 0603 (0.6 mm Height)

Low V_F Blue

QTLP601C-EB

TAPE AND REEL DIMENSIONS



Dimensional tolerance is \pm 0.1mm unless otherwise specified Angle: \pm 0.5 Unit: mm

- 0.9

0.7 -

Polarity

4.0



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SURFACE MOUNT LED LAMP 0603 (0.6 mm Height)

Low V_F Blue

QTLP601C-EB

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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.