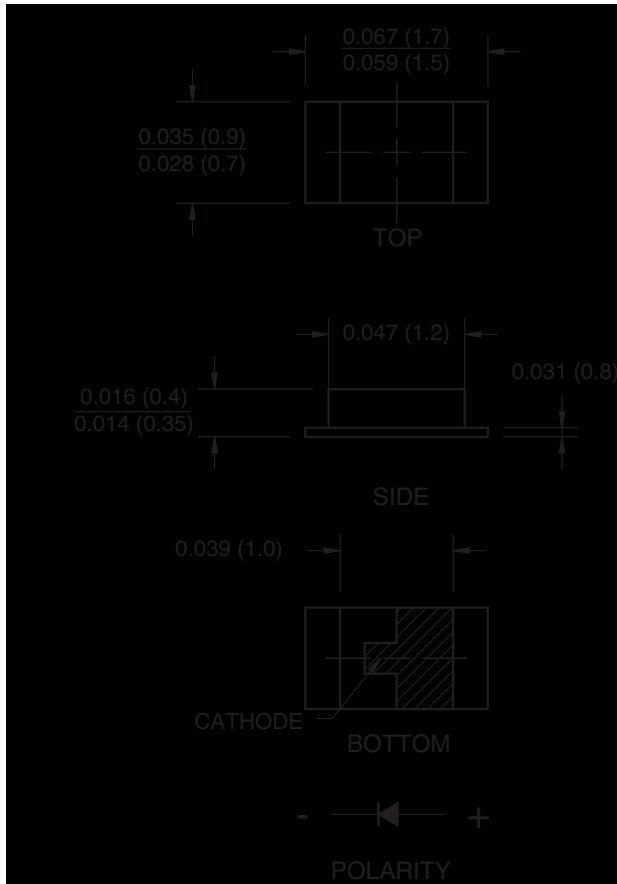


QTLP603C-EB

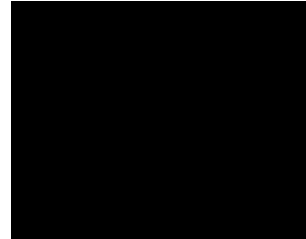
Blue

PACKAGE DIMENSIONS



NOTE:

Dimensions for all drawings are in inches (mm).



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 0.4(H) mm
- Wide viewing angle of 120°
- Water clear optics
- Moisture-proof packaging
- Available in 0.315" (8mm) width tape on 7" (178mm) diameter reel; 2,000 units per reel



SURFACE MOUNT LED LAMP

0603 (0.35 mm Height)

QTLP603C-EB

Blue

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Operating Temperature	T_{OPR}	-40 to +85	$^\circ\text{C}$
Storage Temperature	T_{STG}	-40 to +90	$^\circ\text{C}$
Lead Soldering Time	T_{SOL}	260 for 5 sec	$^\circ\text{C}$
Continuous Forward Current	I_F	30	mA
Peak Forward Current ($f = 1.0\text{ KHz}$, Duty Factor = 1/10)	I_{FM}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	80	mW

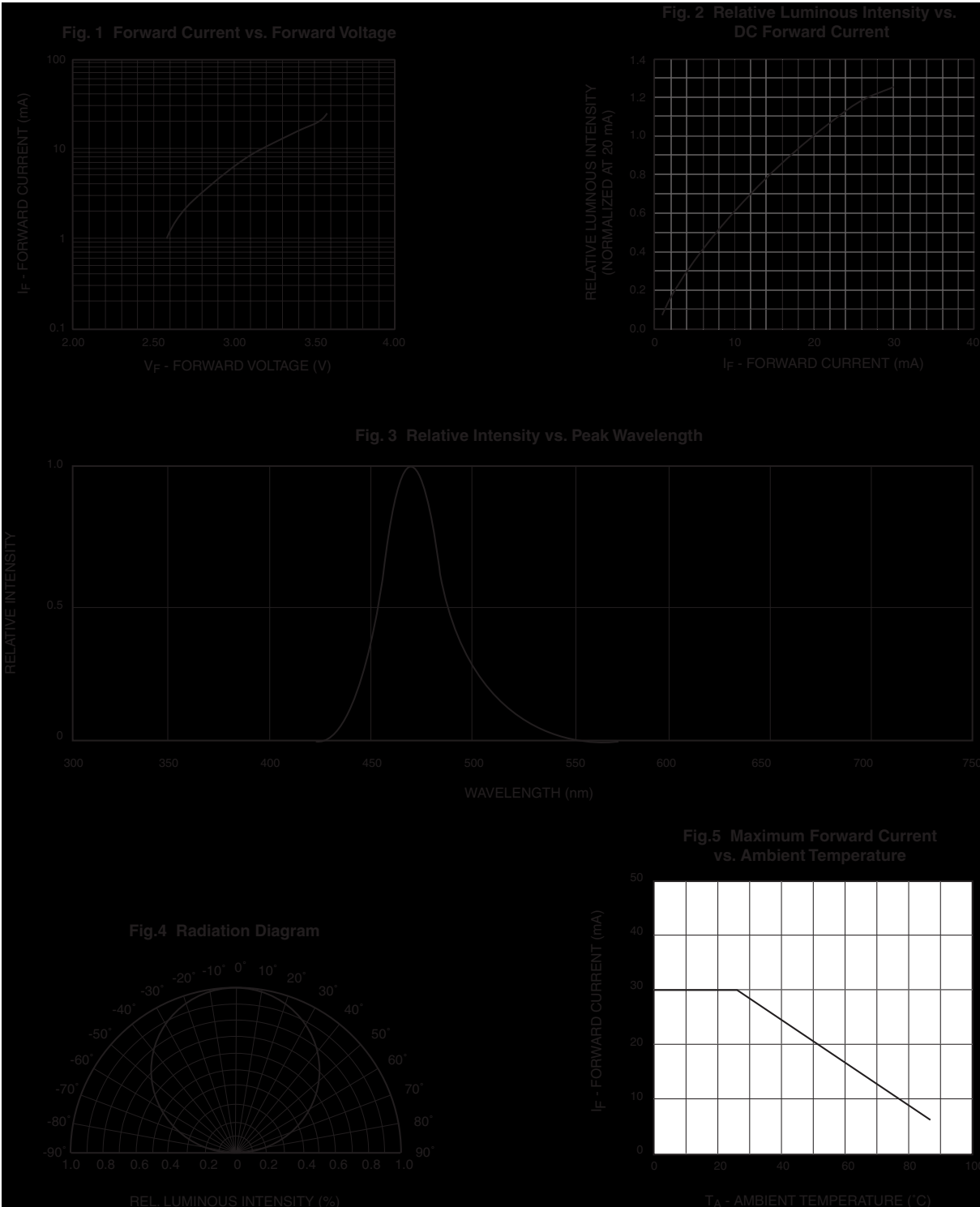
ELECTRICAL / OPTICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

Part Number	QTLP603C-EB.7800D	Condition
Luminous Intensity (mcd)		$I_F = 5\text{ mA}$
Bin I1	8 - 16	
Bin I2	13 - 26	
Forward Voltage (V)		$I_F = 5\text{ mA}$
Bin V1	2.75 - 2.95	
Bin V2	2.95 - 3.15	
Dominant Wavelength (nm)		$I_F = 5\text{ mA}$
Bin W1	465 - 470	
Bin W2	470 - 475	
Spectral Line Half Width (nm)	35	$I_F = 20\text{ mA}$
Viewing Angle ($^\circ$)	120	$I_F = 20\text{ mA}$

QTLP603C-EB

Blue

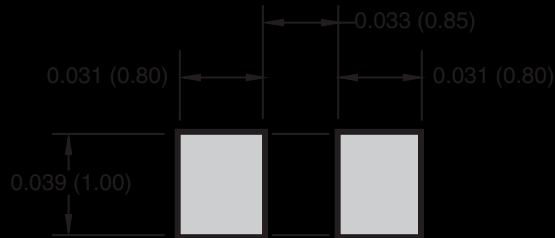
TYPICAL PERFORMANCE CURVES



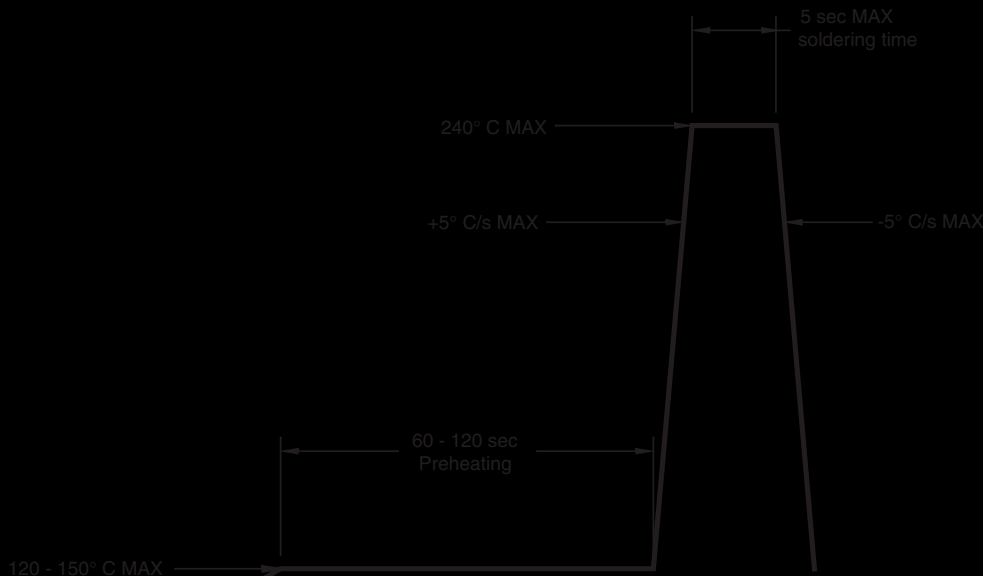
QTLP603C-EB

Blue

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



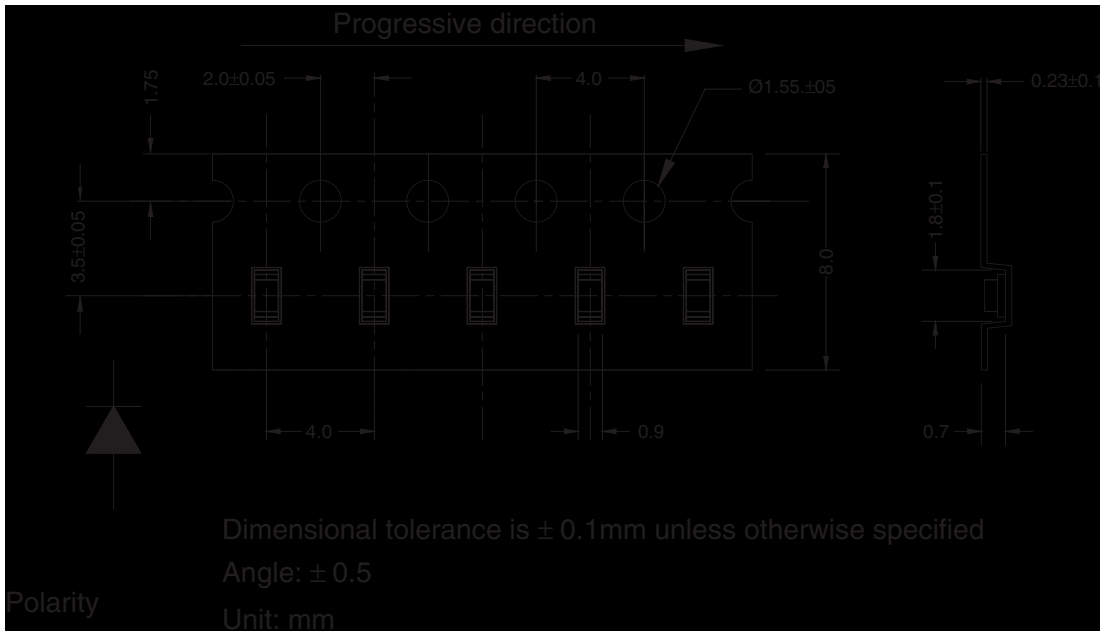
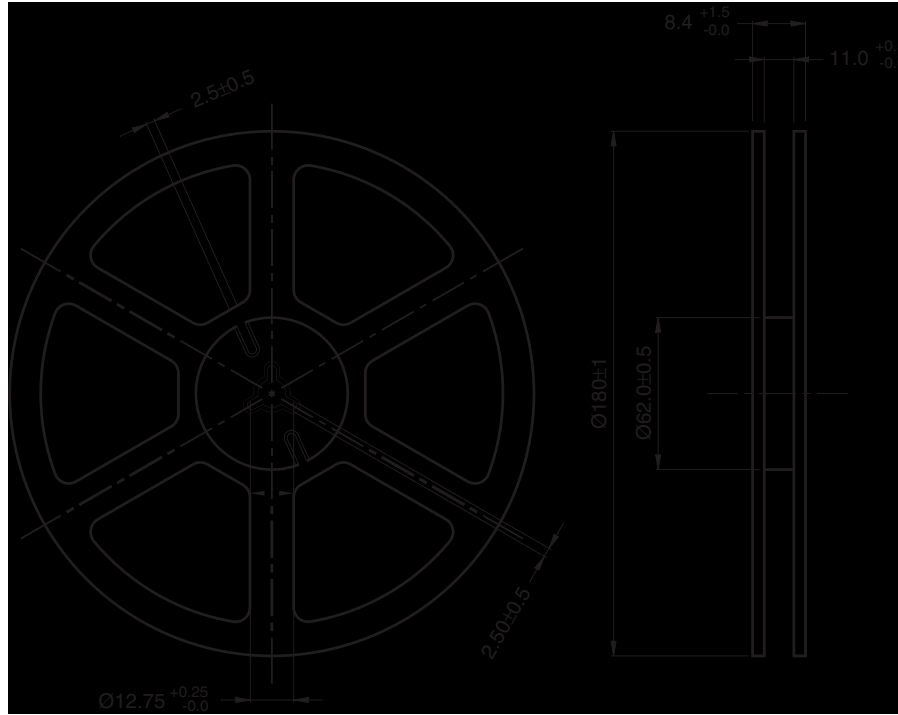
RECOMMENDED IR REFLOW SOLDERING PROFILE



QTLP603C-EB

Blue

TAPE AND REEL DIMENSIONS





SURFACE MOUNT LED LAMP

0603 (0.35 mm Height)

QTLP603C-EB

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.