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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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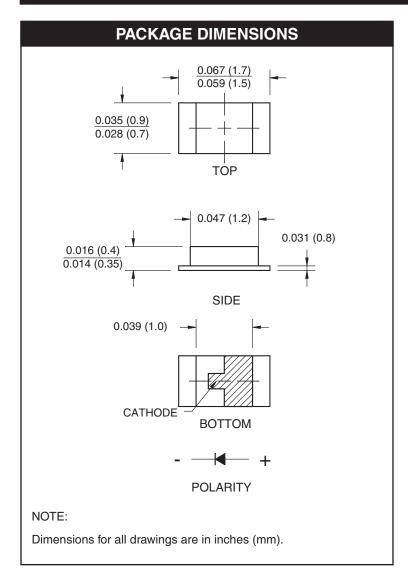


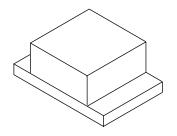




0603 (0.35 mm Height)

QTLP603C-EB Blue





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



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QTLP603C-EB Blue

ABSOLUTE MAXIMUM 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	P _D	80	mW

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)			
Part Number	QTLP603C-EB.7800D	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		
Spectral Line Half Width (nm)	35	I _F = 20 mA	
Viewing Angle (°)	120	I _F = 20 mA	



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QTLP603C-EB **Blue**

TYPICAL PERFORMANCE CURVES

Fig. 1 Forward Current vs. Forward Voltage 10

IF - FORWARD CURRENT (mA) 2.00 2.50 3.00 4.00

V_F - FORWARD VOLTAGE (V)

Fig. 2 Relative Luminous Intensity vs. **DC Forward Current**

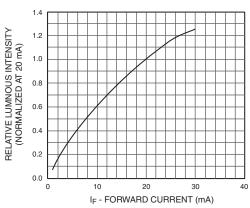


Fig. 3 Relative Intensity vs. Peak Wavelength

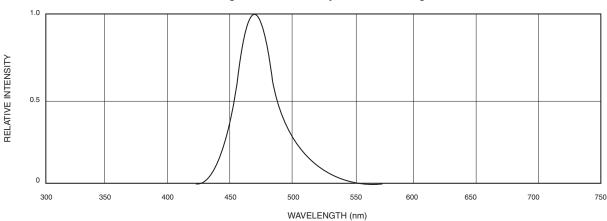


Fig.4 Radiation Diagram

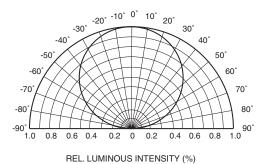
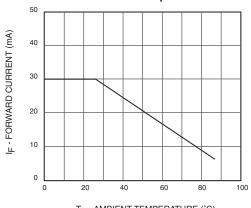


Fig.5 Maximum Forward Current vs. Ambient Temperature

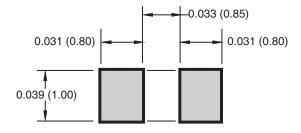




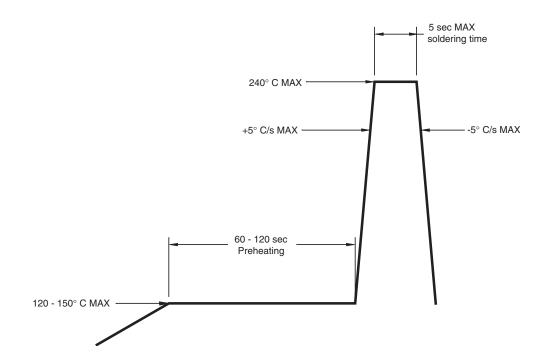
0603 (0.35 mm Height)

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RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE

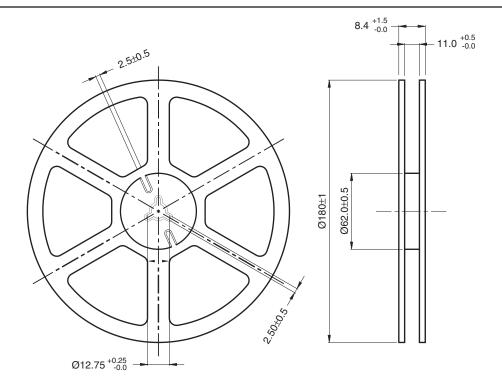


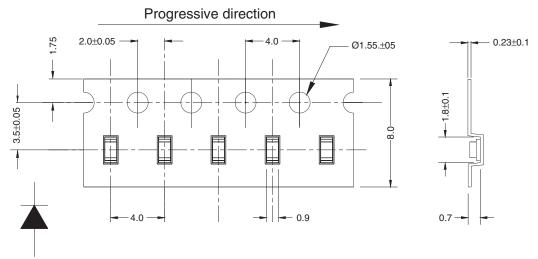


0603 (0.35 mm Height)

QTLP603C-EB Blue

TAPE AND REEL DIMENSIONS





Dimensional tolerance is \pm 0.1mm unless otherwise specified

Angle: ± 0.5

Polarity Unit: mm



0603 (0.35 mm Height)

QTLP603C-EB Blue

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