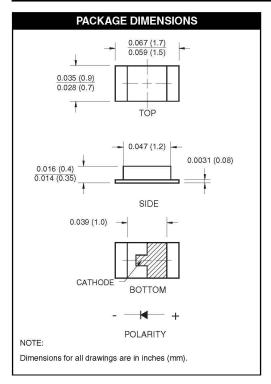
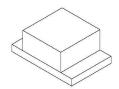


0603 (0.35 mm Height)

QTLP603CEBTR

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



0603 (0.35 mm Height)

QTLP603CEBTR

Blue

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	J _E	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

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)			
Part Number	QTLP603CEBTR	Condition	
Luminous Intensity (mcd)			
Bin I1	8 - 16	$I_F = 5 \text{ mA}$	
Bin I2	13 - 26		
Forward Voltage (V)			
Bin V1	2.75 - 2.95	$I_F = 5 \text{ mA}$	
Bin V2	2.95 - 3.15		
Dominant Wavelength (nm)			
Bin W1	465 - 470	$I_F = 5 \text{ mA}$	
Bin W2	470 - 475		
Spectral Line Half Width (nm)	35	I _F = 20 mA	
Viewing Angle (°)	120	I _F = 20 mA	



0603 (0.35 mm Height)

QTLP603CEBTR

Blue

TYPICAL PERFORMANCE CURVES

Fig. 1 Forward Current vs. Forward Voltage

100

100

100

100

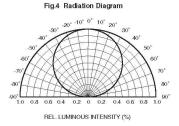
250

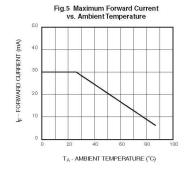
3.00

350

4.00

VF-FORWARD VOLTAGE (V)





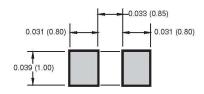


0603 (0.35 mm Height)

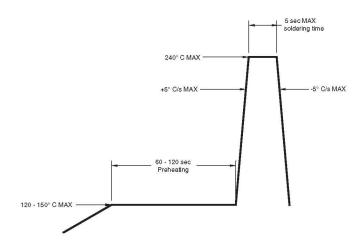
QTLP603CEBTR

Blue

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE



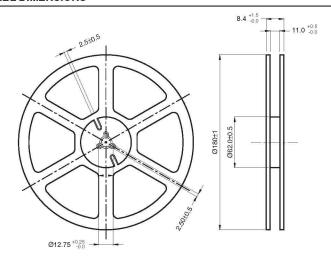


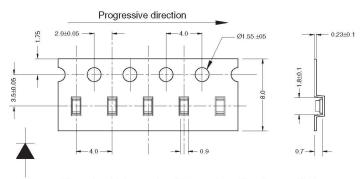
0603 (0.35 mm Height)

QTLP603CEBTR

Blue

TAPE AND REEL DIMENSIONS





Dimensional tolerance is ± 0.1mm unless otherwise specified

Angle: ± 0.5
Polarity Unit: mm



0603 (0.35 mm Height)

QTLP603CEBTR

Blue

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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.