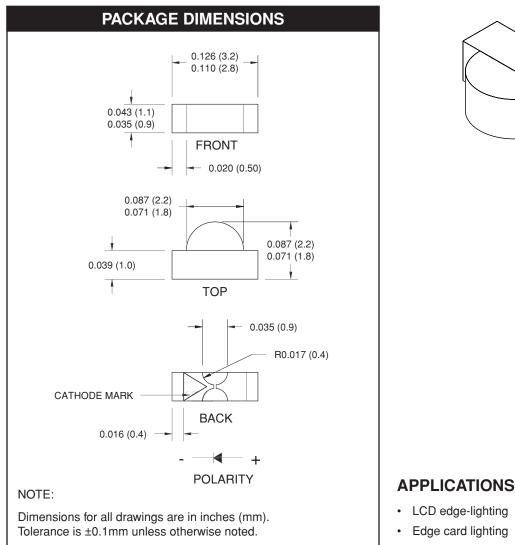
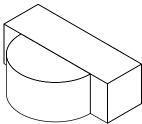


Low V_F Blue



QTLP610CEBTR



DESCRIPTION

This right angle surface mount chip LED emits light in the lateral direction. Small size and wide viewing angle make this LED an ideal choice for edge-lighting LCD displays. This device utilizes an InGaN/Sapphire blue LED.

FEATURES

- Small footprint 3.0(L) X 2.0(W) X 1.0(H) mm
- Wide viewing angle of 120°
- · Water clear optics
- Available in 0.315" (8mm) width tape on 7" (178mm) diameter reel; 2,000 units per reel



SEMICONDUCTOR®

SURFACE MOUNT LED LAMP RIGHT ANGLE

Low V_F Blue

QTLP610CEBTR

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise specified)			
Parameter	Symbol	Rating	Unit
Operating Temperature	T _{OPR}	-40 to +85	٥C
Storage Temperature	T _{STG}	-40 to +90	٥C
Lead Soldering Time	T _{SOL}	260 for 5 sec	٥C
Continuous Forward Current	١ _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	QTLP610CEBTR	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 W2	470 - 475	I _F = 5 mA	
Bin W3	475 - 480		
Spectral Line Half Width (nm)	35	I _F = 5 mA	
Viewing Angle (°)	120	I _F = 5 mA	
Reverse Current (µA)	50 max	V _R = 5V	

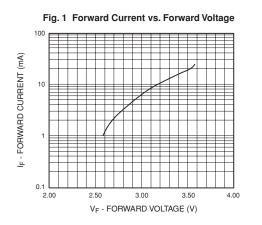
Tolerance: Luminous Intensity = \pm 11% Forward Voltage = \pm 0.1V Wavelength = \pm 1nm



Low V_F Blue

QTLP610CEBTR

TYPICAL PERFORMANCE CURVES



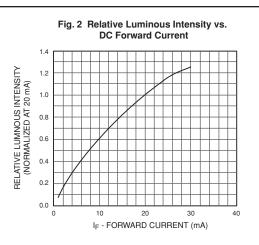
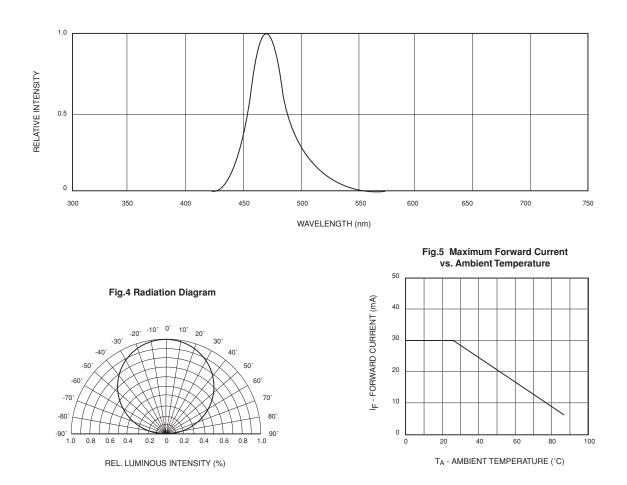


Fig. 3 Relative Intensity vs. Peak Wavelength

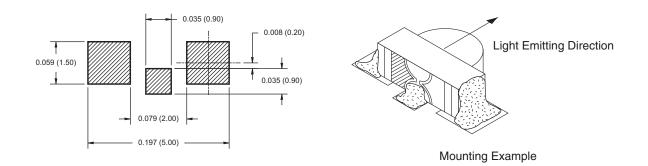




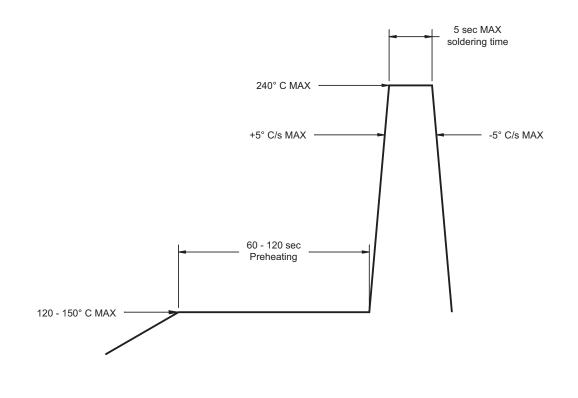
Low V_F Blue

QTLP610CEBTR

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE

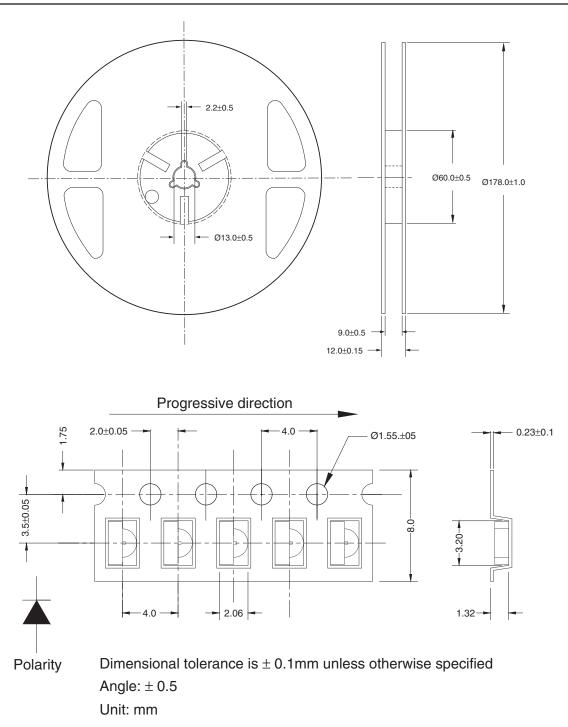




Low V_F Blue

QTLP610CEBTR

TAPE AND REEL DIMENSIONS





SEMICONDUCTOR®

SURFACE MOUNT LED LAMP RIGHT ANGLE

Low V_F Blue

QTLP610CEBTR

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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.