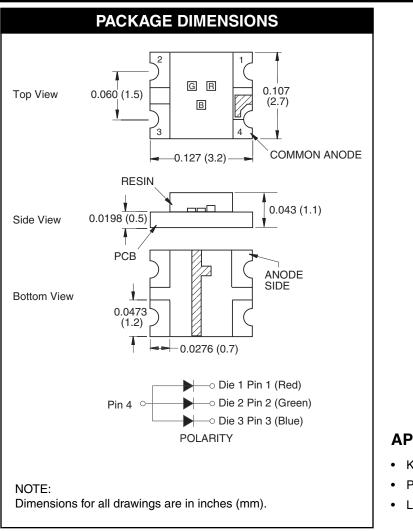
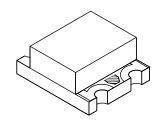


QTLP650D-RGB Red/Green/Blue





APPLICATIONS

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

DESCRIPTION

This full-color surface mount chip LED is designed to fit industry standard footprint. Small size, low profile and wide viewing angle make this LED ideal for backlighting applications and panel illumination.

FEATURES

- Miniature footprint 3.2(L) X 2.7(W) X 1.1(H) mm
- AllnGaP and InGaN technology
- Wide viewing angle of 140°
- Diffused 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 FULL COLOR 1210

QTLP650D-RGB Red/Green/Blue

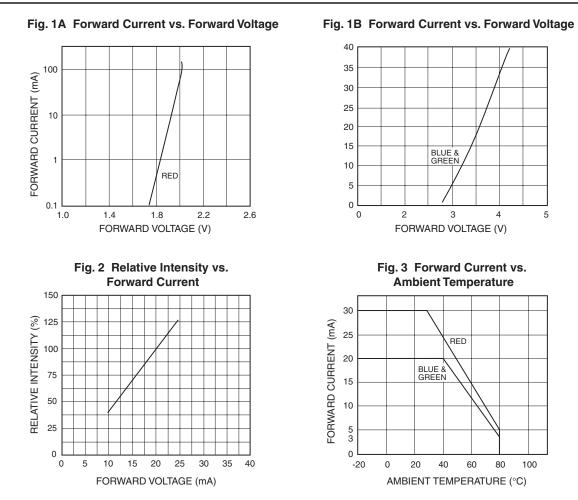
ABSOLUTE MAXIMUM RATINGS (T _A =25°C Unless otherwise specified)								
Parameter	Symbol	R	G	В	Units			
Continuous Forward Current	١ _F	30	20	20	mA			
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	100	80	80	mA			
Reverse Voltage ($I_R = 100 \ \mu A$)	V _R	5			V			
Power Dissipation	PD	72	78	78	mW			
Operating Temperature	T _{OPR}		°C					
Storage Temperature	T _{STG}		°C					
Lead Soldering Time	T _{SOL}		°C					

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)										
Demonster		0h.a.l	QTLP650D							
Parameter		Symbol -	R	G	В	Condition				
Luminous Intensity (mcd)	min:	I _V	25	63	25	I _F = 20mA				
	typ:		60	130	40					
Forward Voltage (V)	typ:	V _F	1.9	3.3	3.3	I _F = 20mA				
	max:		2.4	3.9	3.9					
Wavelength (nm)	Peak:	l _P	630	520	468	I _F = 20mA				
	Dominance:	I _D	624	525	470					
Typical Viewing Angle (°)		2U1/2		. 140	•	$I_F = 20 \text{mA}$				

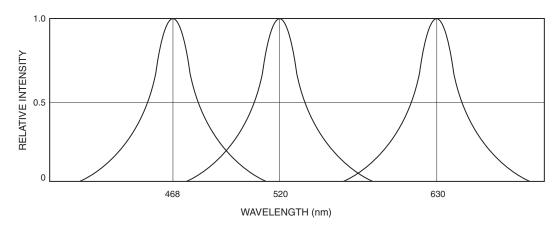


QTLP650D-RGB Red/Green/Blue

TYPICAL PERFORMANCE CURVES



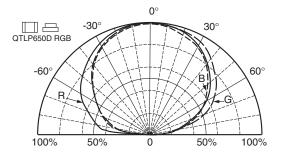




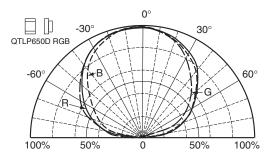


QTLP650D-RGB Red/Green/Blue

TYPICAL PERFORMANCE CURVES



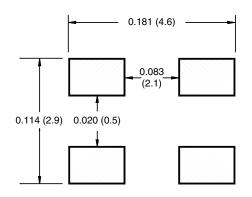




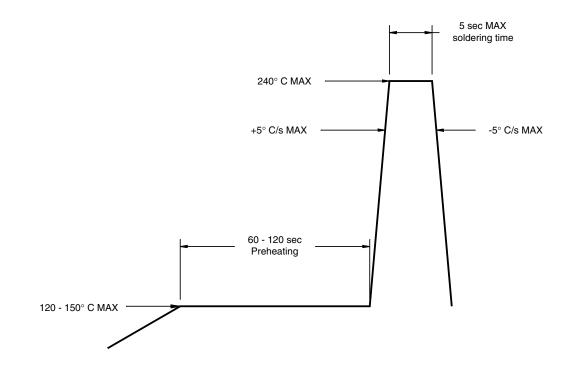


QTLP650D-RGB Red/Green/Blue

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



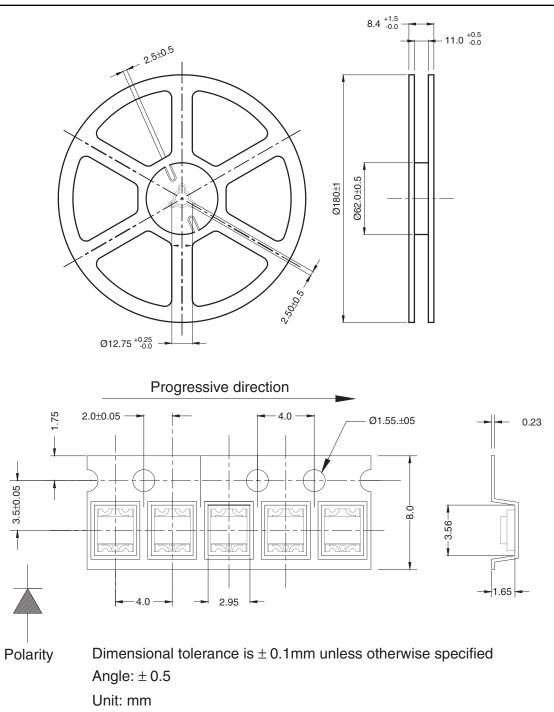
RECOMMENDED IR REFLOW SOLDERING PROFILE





QTLP650D-RGB Red/Green/Blue

TAPE AND REEL DIMENSIONS





SEMICONDUCTOR®

SURFACE MOUNT LED LAMP FULL COLOR 1210

QTLP650D-RGB Red/Green/Blue

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