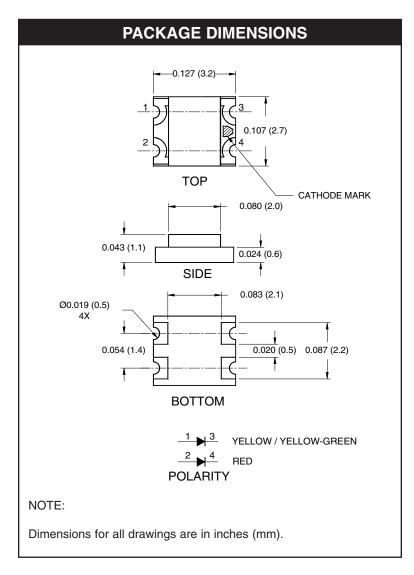
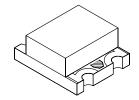


QTLP650C-RY Red/Yellow

QTLP650C-RAG Red/Yellow-Green





APPLICATIONS

- Keypad backlighting
- · Push-button backlighting
- · LCD backlighting

DESCRIPTION

These super bright bi-color surface mount chip LEDs are designed to fit industry standard footprint. Small size, low profile and wide viewing angle make these LEDs ideal for backlighting applications and panel illumination.

FEATURES

- Miniature footprint 3.2(L) X 2.7(W) X 1.1(H) mm
- AllnGaP technology
- Wide viewing angle of 140°
- Water clear optics
- · Moisture-proof packaging
- Available in 0.315" (8mm) width tape on 7" (178mm) diameter reel; 2,000 units per reel



QTLP650C-RY Red/Yellow

QTLP650C-RAG Red/Yellow-Green

ABSOLUTE MAXIMUM RATINGS (TA =25°C Unless otherwise specified)							
Parameter	Symbol	QTLP6					
		-RY	-RAG	Units			
Continuous Forward Current	I _F	30 / 25	30 / 30	mA			
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	160 / 120	160 / 160	mA			
Reverse Voltage	V_{R}	5	5	V			
Power Dissipation	P_{D}	72 / 60	72 / 72	mW			
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			

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)						
Parameter	Symbol	QTLP650C		11.21.		
		-RY	-RAG	Units		
Luminous Intensity (mcd)						
Minimum	I _V	15 / 15	15 / 10	$I_F = 20mA$		
Typical		35 / 35	35 / 15			
Forward Voltage (V)						
Maximum	V_{F}	2.4 / 2.4	2.4 / 2.4	$I_F = 20mA$		
Typical		2.0 / 2.0	2.0 / 2.0			
Wavelength (nm)	,					
Peak	λ _P	630 / 590	630 / 575	$I_F = 20mA$		
Dominant	λ_{D}	624 / 589	624 / 573			
Spectral Line Half Width (nm)	Δλ	20 / 15	20 / 20	I _F = 20mA		
Viewing Angle (°)	201/ ₂	140	140	I _F = 20mA		



QTLP650C-RY Red/Yellow

QTLP650C-RAG Red/Yellow-Green

TYPICAL PERFORMANCE CURVES

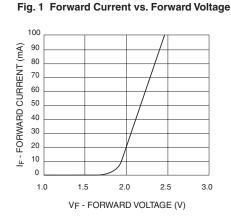


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

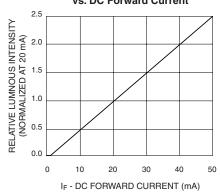


Fig. 3 Relative Intensity vs. Peak Wavelength

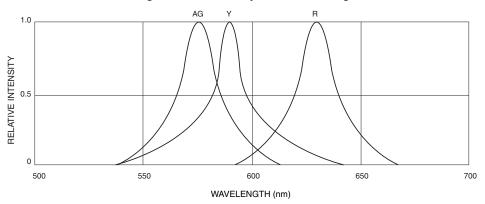


Fig.4 Radiation Diagram

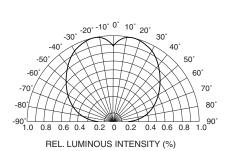
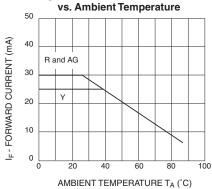


Fig.5 Maximum Forward Current

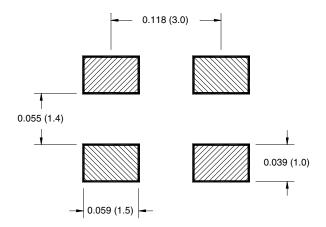




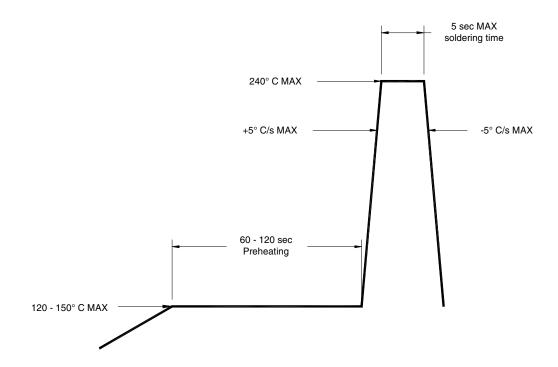
QTLP650C-RY Red/Yellow

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RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE

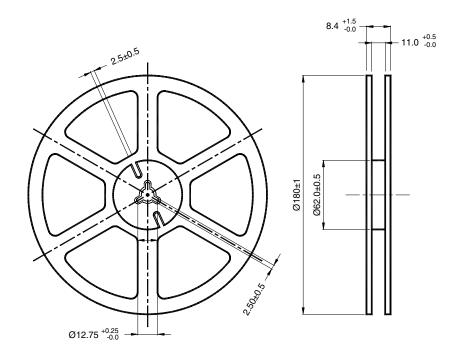


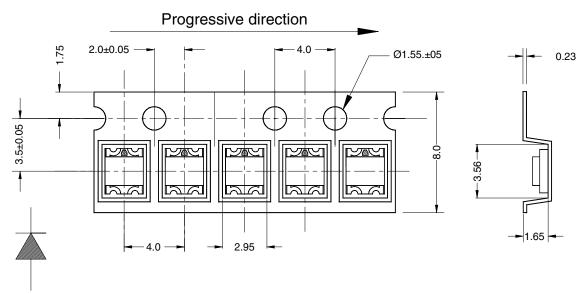


QTLP650C-RY Red/Yellow

QTLP650C-RAG Red/Yellow-Green

TAPE AND REEL DIMENSIONS





Polarity Dimensional tolerance is \pm 0.1mm unless otherwise specified

Angle: ± 0.5 Unit: mm



QTLP650C-RY Red/Yellow

QTLP650C-RAG Red/Yellow-Green

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• LCD backlighting

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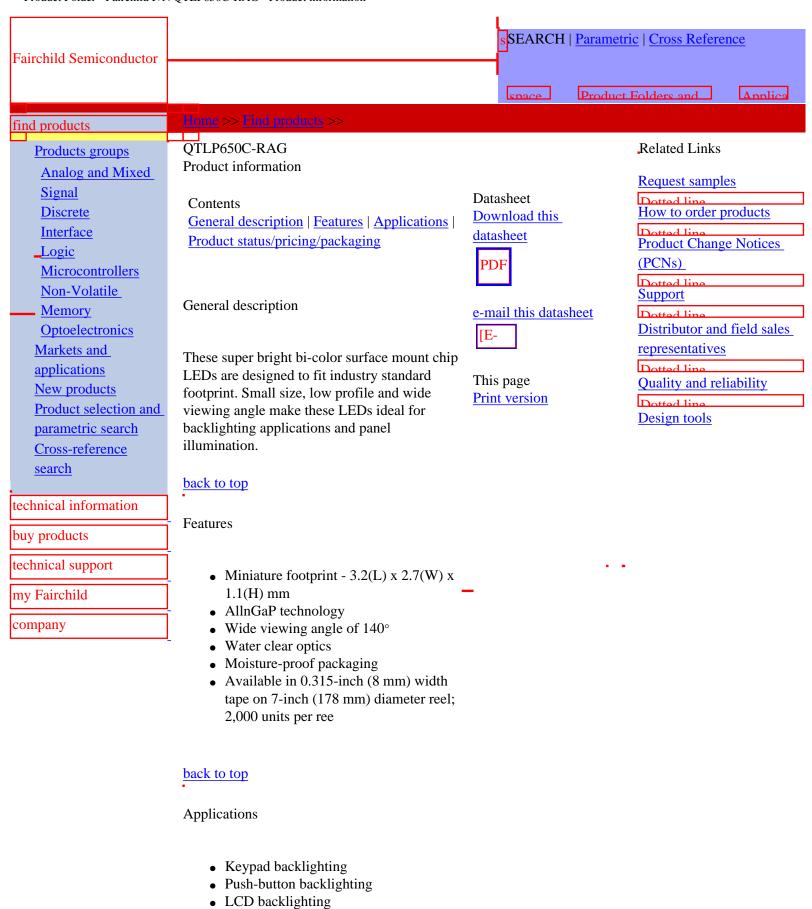
Product status/pricing/packaging

Product	Product status	Package type	Packing method
QTLP650CRYTR	Full Production	SMD	TAPE REEL

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Product Folder - Fairchild P/N QTLP650C-RAG - Product information

Product status/pricing/packaging

Product	Product status	Package type	Packing method
QTLP650CRAGTR	Full Production	SMD	TAPE REEL

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