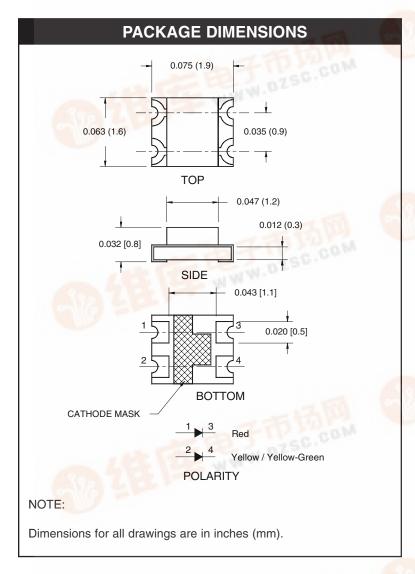


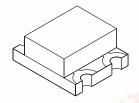
SURFACE MOUNT **SUPER BRIGHT 0606**

QTLP600C-RY Red/Yellow

QTLP600C-RAG Red/Yellow-Green

WWW.DZSG.CO





APPLICATIONS

- Keypad 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 1.9(L) X 1.6(W) X 0.8(H) mm
- AllnGaP technology
- Wide viewing angle of 130°
- Water clear optics

Moisture proof packaging

Available in 0.315" (8mm) width tape on 7" (178mm) diameter reel; 2,000 units per reel



QTLP600C-RY Red/Yellow

QTLP600C-RAG Red/Yellow-Green

ABSOLUTE MAXIMUM RATINGS (TA =25°C Unless otherwise specified)							
Parameter	Symbol	QTLP600C					
		-RY	-RAG	Units			
Continuous Forward Current	l _F	30 / 25	30 / 30	mA			
Peak Forward Current	I _{FM}	160 / 120	160 / 160	mA			
(f = 1.0 KHz, Duty Factor = 1/10)							
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	QTLP600C				
		-RY	-RAG	- Units		
Luminous Intensity (mcd)						
Minimum	Ι _V	10 / 10	10 / 8	$I_F = 20mA$		
Typical		30 / 30	30 / 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	λD	624 / 589	624 / 573			
Spectral Line Half Width (nm)	Δλ	20 / 15	20 / 20	$I_F = 20mA$		
Viewing Angle (°)	201/2	130	130	$I_F = 20mA$		



QTLP600C-RY Red/Yellow

QTLP600C-RAG Red/Yellow-Green

TYPICAL PERFORMANCE CURVES

Fig. 1 Forward Current vs. Forward Voltage

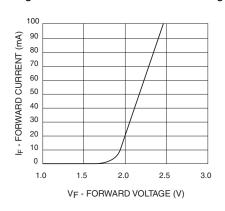


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

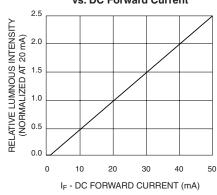


Fig. 3 Relative Intensity vs. Peak Wavelength

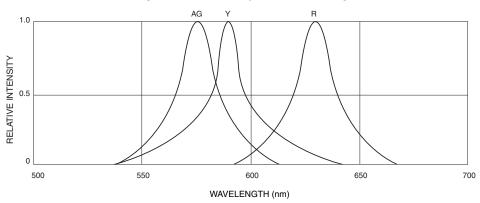
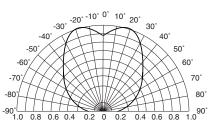
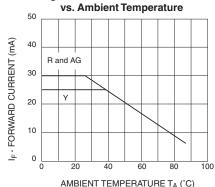


Fig.4 Radiation Diagram



REL. LUMINOUS INTENSITY (%)

Fig.5 Maximum Forward Current

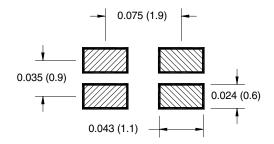




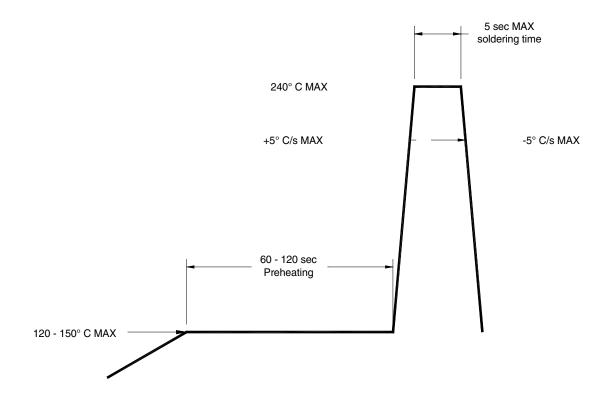
QTLP600C-RY Red/Yellow

QTLP600C-RAG Red/Yellow-Green

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE

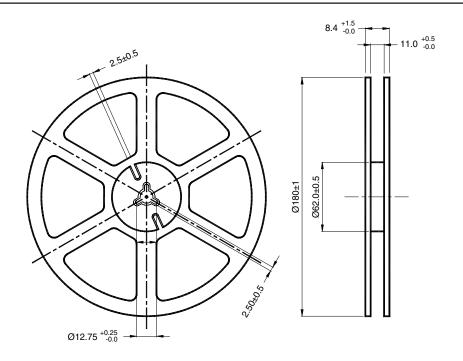


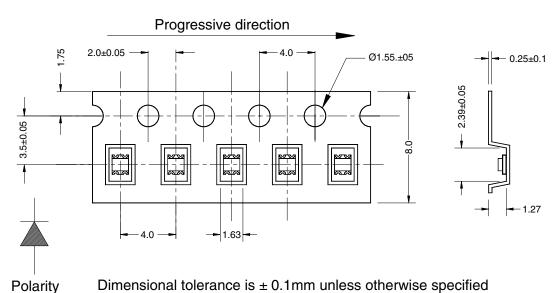


QTLP600C-RY Red/Yellow

QTLP600C-RAG Red/Yellow-Green

TAPE AND REEL DIMENSIONS





Dimensional tolerance is ± 0.1mm unless otherwise specified

Angle: ± 0.5 Unit: mm



QTLP600C-RY Red/Yellow

QTLP600C-RAG Red/Yellow-Green

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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.