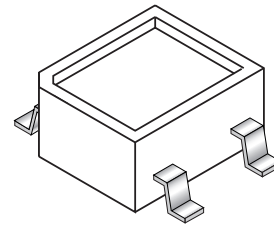
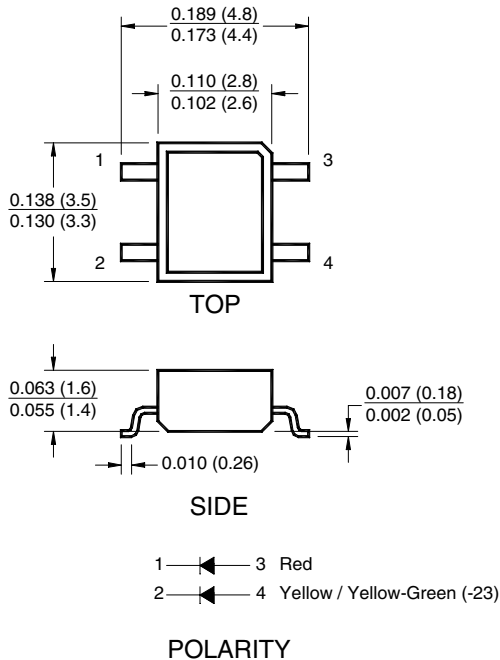


QTLP680C-RY Red/Yellow

QTLP680C-RAG Red/Yellow-Green

PACKAGE DIMENSIONS



NOTE:

Dimensions for all drawings are in inches (mm).

APPLICATIONS

- Backlighting
- Status indication for consumer electronics and other equipment

DESCRIPTION

Designed with a reflective housing, these super bright surface mount LEDs offer uniform lighting and high light output performance.

FEATURES

- Reflector package
- AlInGaP 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

SURFACE MOUNT LED LAMP

SUPER BRIGHT REFLECTOR

(DUAL COLOR)

QTLP680C-RY Red/Yellow

QTLP680C-RAG Red/Yellow-Green

ABSOLUTE MAXIMUM RATINGS (T_A =25°C Unless otherwise specified)

Parameter	Symbol	QTLP680C		Units
		-RY	-RAG	
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 (T_A =25°C)

Parameter	Symbol	QTLP680C		Units
		-RY	-RAG	
Luminous Intensity (mcd)	I _V	15 / 15	15 / 10	I _F = 20mA
Minimum		35 / 35	35 / 20	
Forward Voltage (V)	V _F	2.4 / 2.4	2.4 / 2.4	I _F = 20mA
Maximum		2.0 / 2.0	2.0 / 2.0	
Wavelength (nm)	λ _P	630 / 590	630 / 575	I _F = 20mA
Peak		624 / 589	624 / 573	
Dominant	λ _D	20 / 15	20 / 20	I _F = 20mA
Spectral Line Half Width (nm)	Δλ	130	130	I _F = 20mA
Viewing Angle (°)	2Θ _{1/2}			

TYPICAL PERFORMANCE CURVES

Fig. 1 Forward Current vs. Forward Voltage

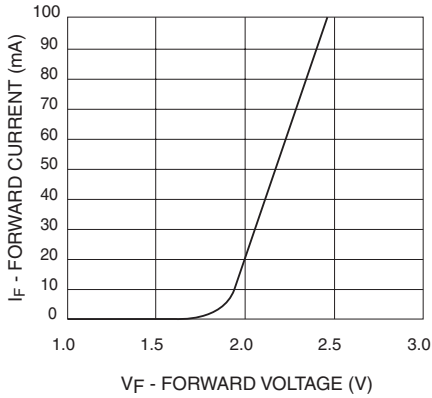


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

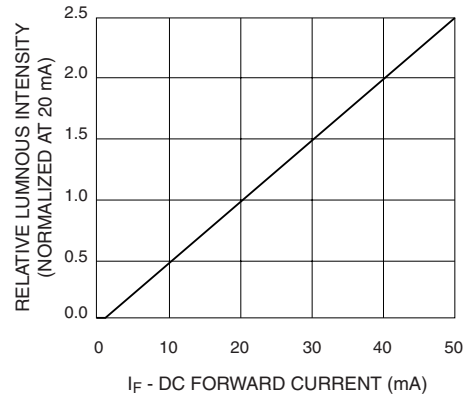


Fig. 3 Relative Intensity vs. Peak Wavelength

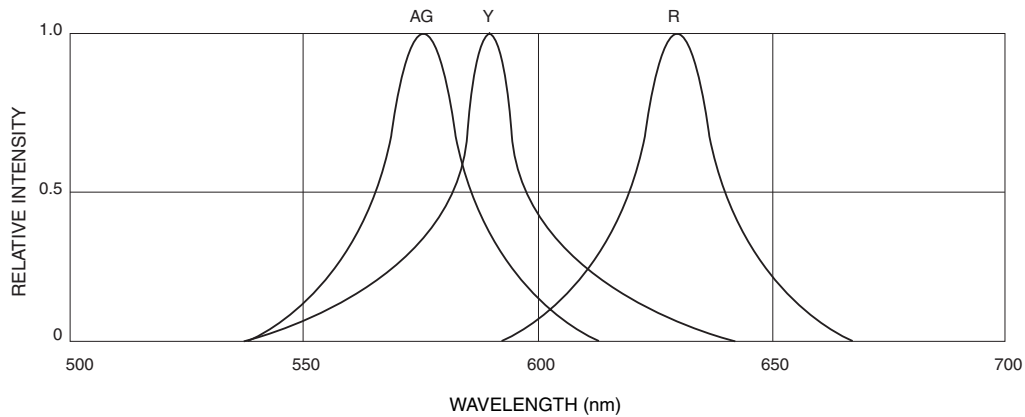


Fig.4 Radiation Diagram

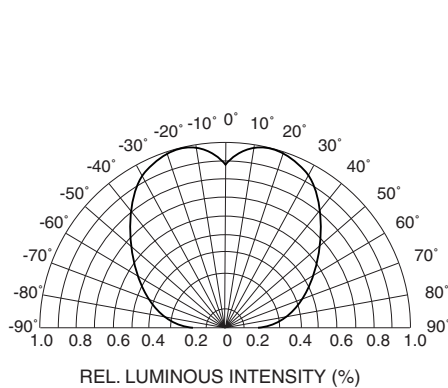
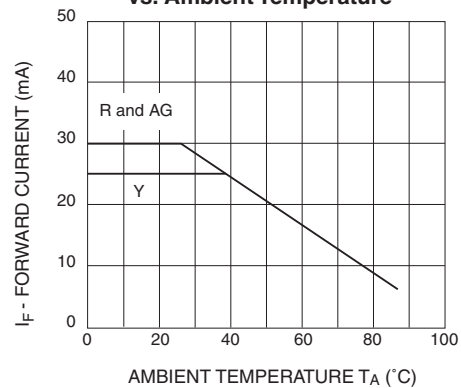


Fig.5 Maximum Forward Current vs. Ambient Temperature

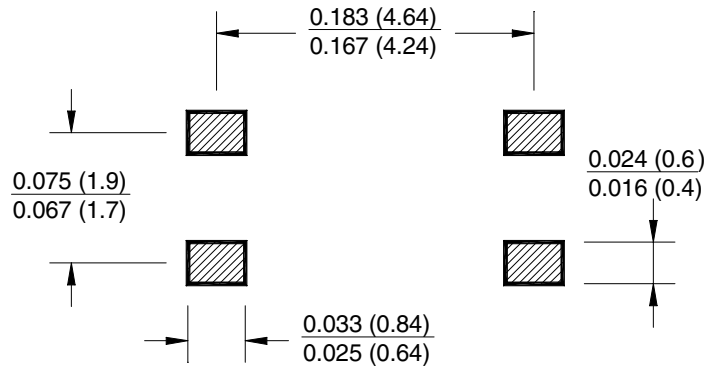


SURFACE MOUNT LED LAMP SUPER BRIGHT REFLECTOR (DUAL COLOR)

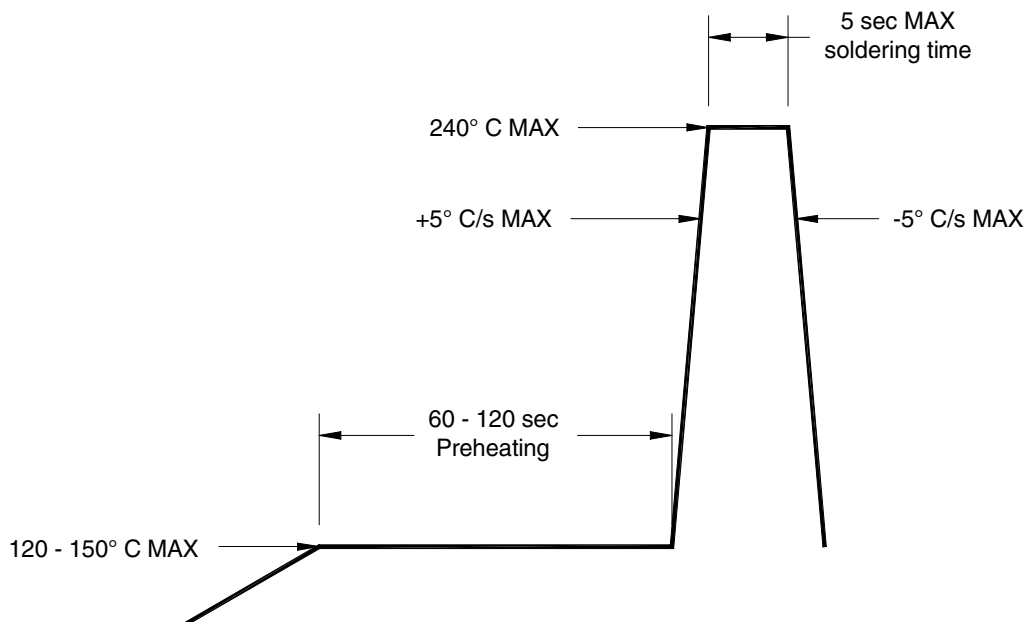
QTLP680C-RY Red/Yellow

QTLP680C-RAG Red/Yellow-Green

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



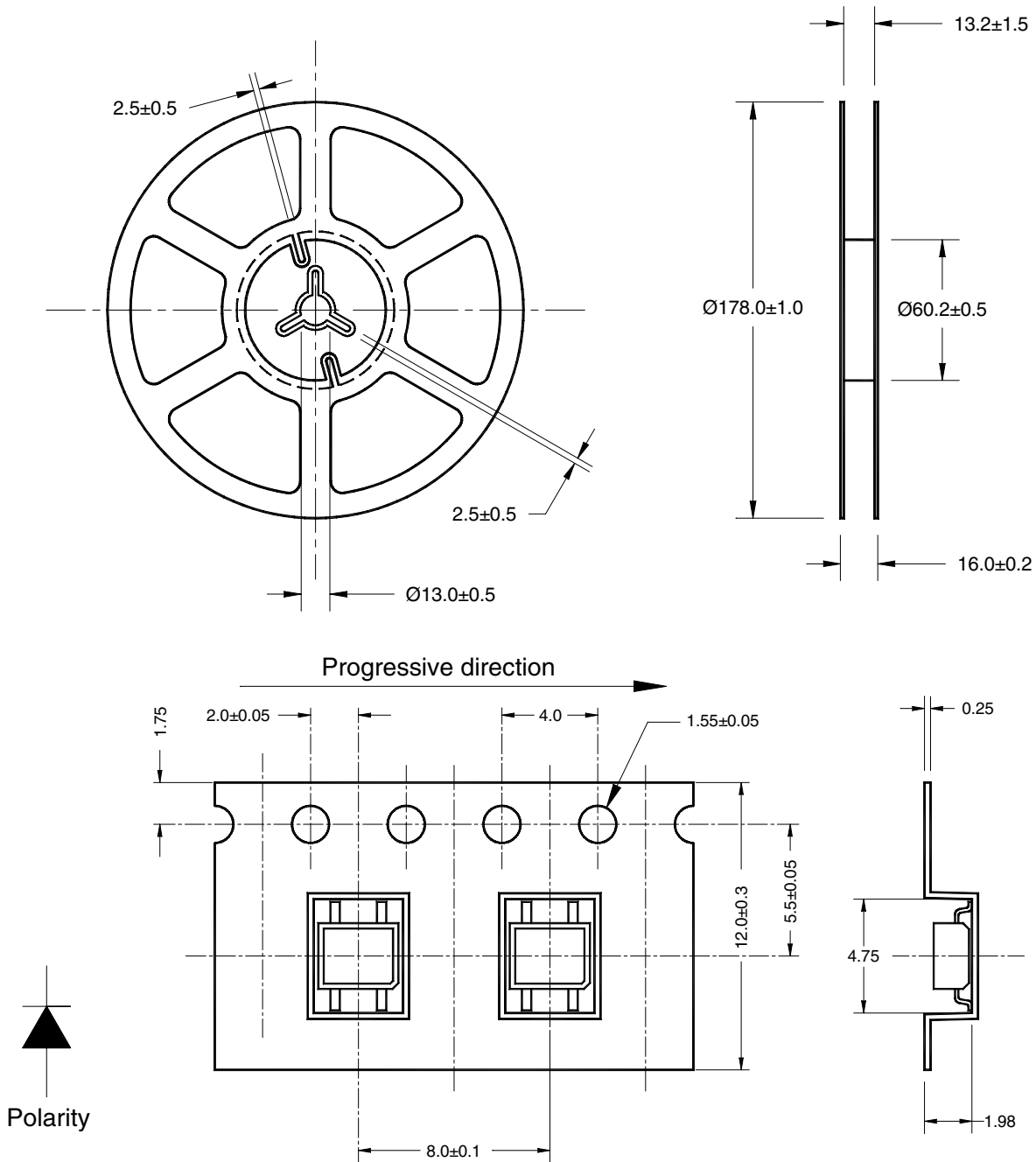
RECOMMENDED IR REFLOW SOLDERING PROFILE



QTLP680C-RY Red/Yellow

QTLP680C-RAG Red/Yellow-Green

TAPE AND REEL DIMENSIONS



Dimensional tolerance is ± 0.1 mm unless otherwise specified
Angle: ± 0.5
Unit: mm

QTLP680C-RY Red/Yellow

QTLP680C-RAG Red/Yellow-Green

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