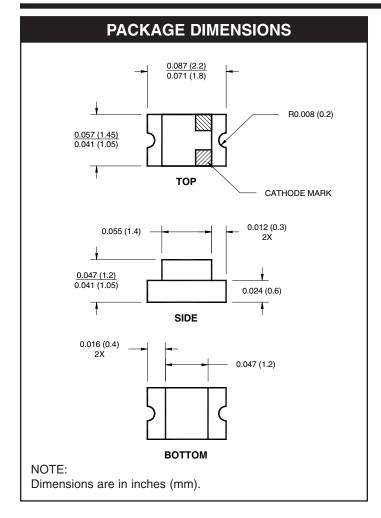


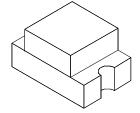
0805 Chip Type - Water Clear



HER	QTLP630C-2
Yellow	QTLP630C-3
Green	QTLP630C-4
AlGaAs Red	QTLP630C-7

FEATURES

- · Ultra-miniature and extremely low profile
- · Industrial standard footprint
- Wide viewing angle of 140°
- · Water clear optics
- · Moisture-proof packaging



DESCRIPTION

These surface mount lamps are designed to fit industry standard profile and footprint for ultra-miniature chip type 0805. The low profile and 140° viewing angle make this chip type LED ideal for panel illumination, push-button backlighting and membrane switch applications.

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise specified)					
Parameter	HER QTLP630C-2	Yellow QTLP630C-3	Green QTLP630C-4	AlGaAs Red QTLP630C-7	Units
Continuous Forward Current - I _F	30	20	30	30	mA
Peak Forward Current - I _F (f = 1.0 KHz, Duty Factor = 1/10)	160	160	160	160	mA
Reverse Voltage - V _R (I _R = 10 μA)	5	5	5	5	V
Power Dissipation - P _D	100	85	100	100	mW
Operating Temperature - T _{OPR}	-40 to +100 °C			°C	
Storage Temperature - T _{STG}	-40 to +100			°C	
Lead Soldering Time - T _{SOL}					
Wave	260 for 5 sec			°C	
Reflow	260 for 10 sec				



0805 Chip Type - Water Clear

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Yellow	QTLP630C-3
Green	QTLP630C-4
AlGaAs Red	QTLP630C-7

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)					
Part Number	HER QTLP630C-2	Yellow QTLP630C-3	Green QTLP630C-4	AlGaAs Red QTLP630C-7	Condition
Luminous Intensity (mcd)					$I_F = 20mA$
Minimum	4	5	7	10	
Typical	15	15	20	20	
Forward Voltage (V)					$I_F = 20mA$
Maximum	2.8	2.8	2.8	2.4	
Typical	2.0	2.0	2.1	1.7	
Peak Wavelength (nm)	635	585	565	660	$I_F = 20mA$
Spectral Line Half Width (nm)	45	35	30	20	$I_F = 20mA$
Viewing Angle (°)	140	140	140	140	I _F = 20mA

TYPICAL PERFORMANCE CURVES

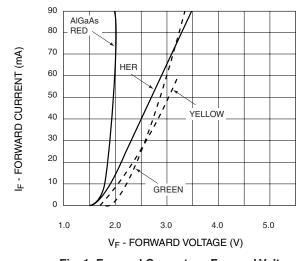


Fig. 1 Forward Current vs. Forward Voltage

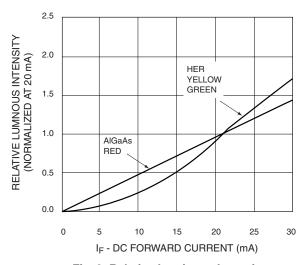


Fig. 2 Relative Luminous Intensity vs.
DC Forward Current



0805 Chip Type - Water Clear

HER	QTLP630C-2
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TYPICAL PERFORMANCE CURVES

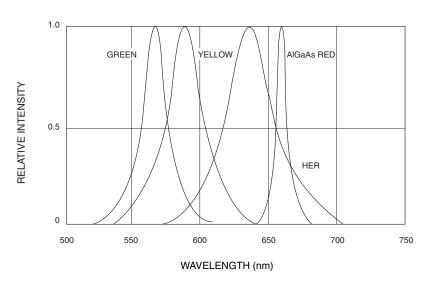


Fig. 3 Relative Intensity vs. Peak Wavelength

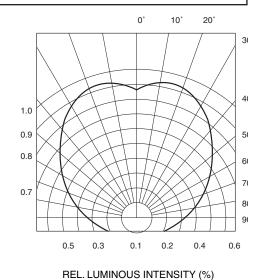


Fig. 4 Radiation Diagram

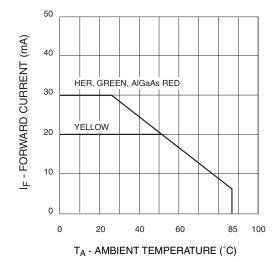


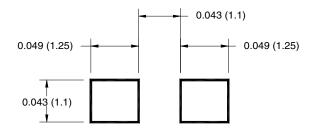
Fig. 5 Current Derating Curve



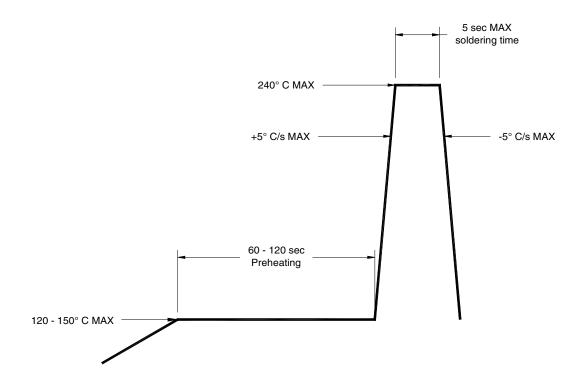
0805 Chip Type - Water Clear

HER	QTLP630C-2
Yellow	QTLP630C-3
Green	QTLP630C-4
AlGaAs Red	QTLP630C-7

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE





SURFACE MOUNT LED LAMP 0805 Chip Type - Water Clear

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