Absolute Maximum Ratings ($T_A = 25$ °C unless otherwise specified)

		QTLP630C					
Parameter	Symbol	-2	-3	-4	-7	-B	Unit
Continuous Forward Current	I _F	30	30	30	30	30	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	160	160	160	180	100	mA
Reverse Voltage (I _R = 10 μA)	V _R	5	5	5	5	5	V
Power Dissipation	P _D	84	84	84	72	135	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 $(T_A = 25^{\circ}C)$

		QTLP630C					
Parameter	Symbol	-2	-3	-4	-7	-B	Condition
Luminous Intensity (mcd)							
Minimum	I _V	5	5	6	10	15	$I_F = 20mA$
Typical		10	10	10	20	20	
Forward Voltage (V)							
Maximum	V _F	2.8	2.8	2.8	2.4	4.5	I _F = 20mA
Typical		2.0	2.0	2.1	1.9	3.8	
Wavelength (nm)							
Peak	λ_{P}	635	585	565	660	430	I _F = 20mA
Dominant	λ_{D}	630	590	570	645	465	
Spectral Line Half Width (nm)	Δ_{λ}	45	35	30	20	65	$I_F = 20mA$
Viewing Angle (°)	2Θ ¹ / ₂	140	140	140	140	140	$I_F = 20mA$

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Typical Performance Curves

Fig. 1 Forward Current vs. Forward Voltage

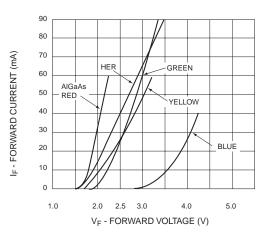


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

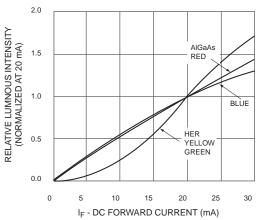


Fig. 3 Relative Intensity vs. Peak Wavelength

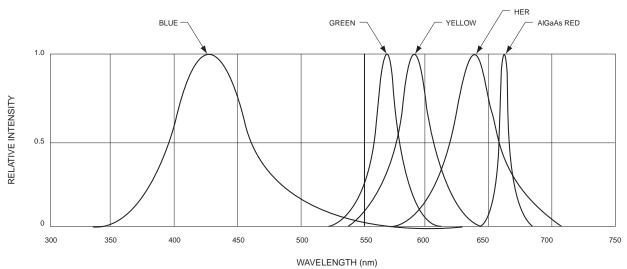


Fig.4 Radiation Diagram

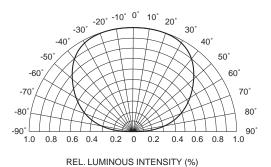
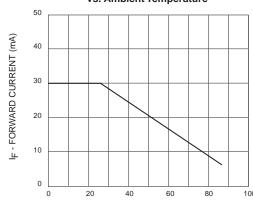
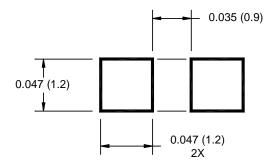


Fig.5 Maximum Forward Current vs. Ambient Temperature

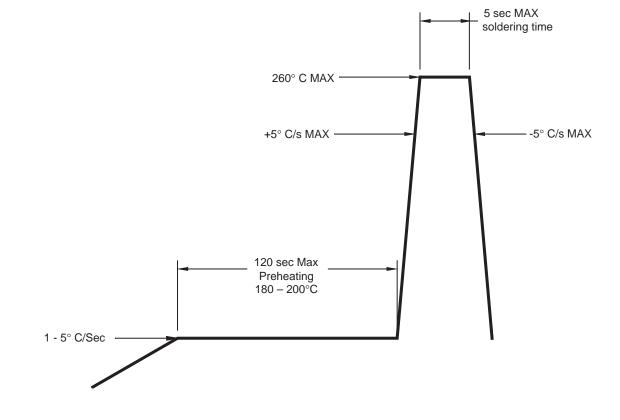


T_A - AMBIENT TEMPERATURE (°C)

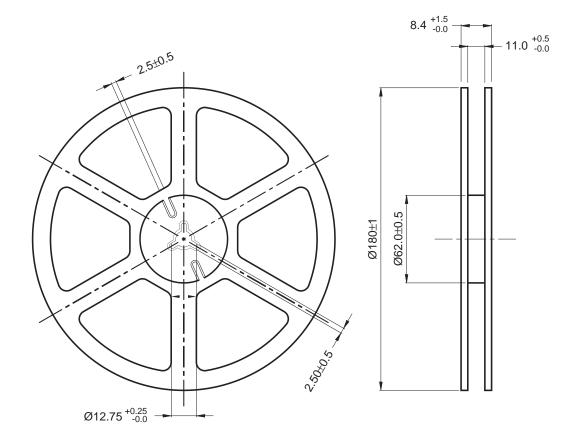
Recommended Printed Circuit Board Pattern

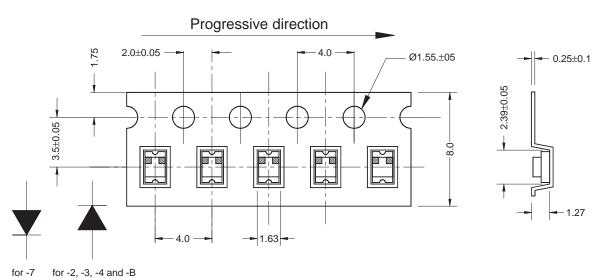


Recommended IR Reflow Soldering Profile



Tape and Reel Dimensions





Polarity Dimensional tolerance is $\pm 0.1 \text{mm}$ unless otherwise specified

Angle: ± 0.5 Unit: mm

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EcoSPARK™	I ² C TM	MSXPro™	RapidConnect™	UltraFET [®]
E ² CMOS TM	i-Lo™	OCX TM	μSerDes™	UniFET™
EnSigna™	ImpliedDisconnect™	OCXPro™	ScalarPump™	VCX™
FACT™	IntelliMAX™	OPTOLOGIC®	SILENT SWITCHER®	Wire™
FACT Quiet Serie	S [™]	OPTOPLANAR™	SMART START™	
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		POP™	Stealth™	
		Power247™	SuperFET™	
		PowerEdge™	SuperSOT™-3	

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