

QTLP601C-2 HER QTLP601C-7 AlGaAs Red

QTLP601C-3 Yellow

QTLP601C-4 Green

QTLP601C-B Blue

ABSOLUTE MAXIMUM RATINGS (T _A =25°C Unless otherwise specified)										
Parameter	Symbol	QTLP601C								
		-2	-3	-4	-7	-В	– Units			
Continuous Forward Current	۱ _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 ($I_R = 10 \ \mu A$)	V _R	5	5	5	5	5	V			
Power Dissipation	PD	84	84	84	72	135	mW			
Operating Temperature	T _{OPR}	-40 to +85								
Storage Temperature	T _{STG}	-40 to +90								
Lead Soldering Time	T _{SOL}	260 for 5 sec								

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)										
Part Number	Cumbal		Condition							
	Symbol	-2	-3	-4	-7	-В	Condition			
Luminous Intensity (mcd)										
Minimum		4	3	7	8	15	I _F = 20mA			
Typical	IV.	6	5	15	15	20				
Forward Voltage (V)										
Maximum	V _F	2.8	2.8	2.8	2.4	4.5	I _F = 20mA			
Typical	v _F	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)	Δλ	45	35	30	20	65	I _F = 20mA			
Viewing Angle (°)	2Θ _{1/2}	120	120	120	120	120	I _F = 20mA			

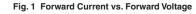


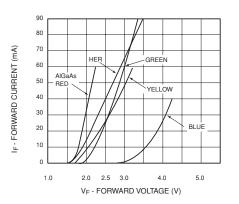
QTLP601C-2 HER QTLP601C-7 AlGaAs Red QTLP601C-3 Yellow

QTLP601C-4 Green

QTLP601C-B Blue

TYPICAL PERFORMANCE CURVES





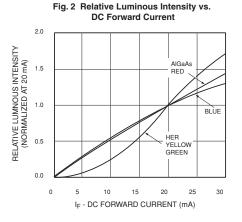
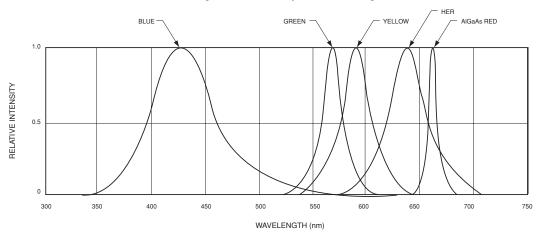
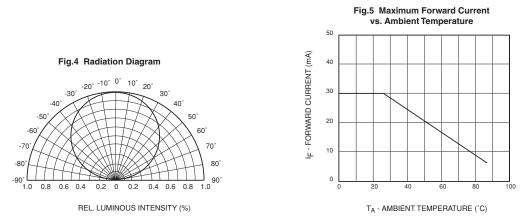


Fig. 3 Relative Intensity vs. Peak Wavelength







QTLP601C-2 HER

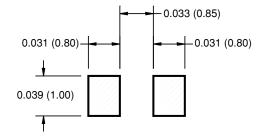
QTLP601C-3 Yellow

QTLP601C-4 Green

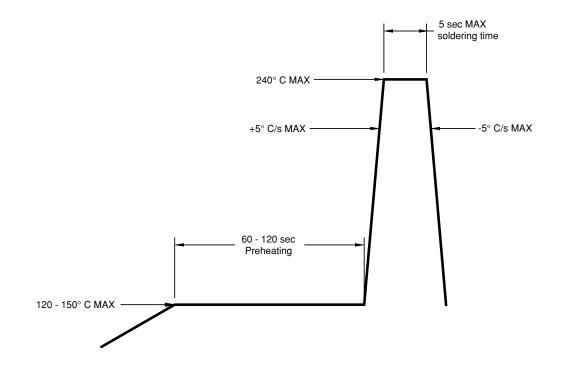
QTLP601C-7 AlGaAs Red

QTLP601C-B Blue

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE





QTLP601C-2 HER

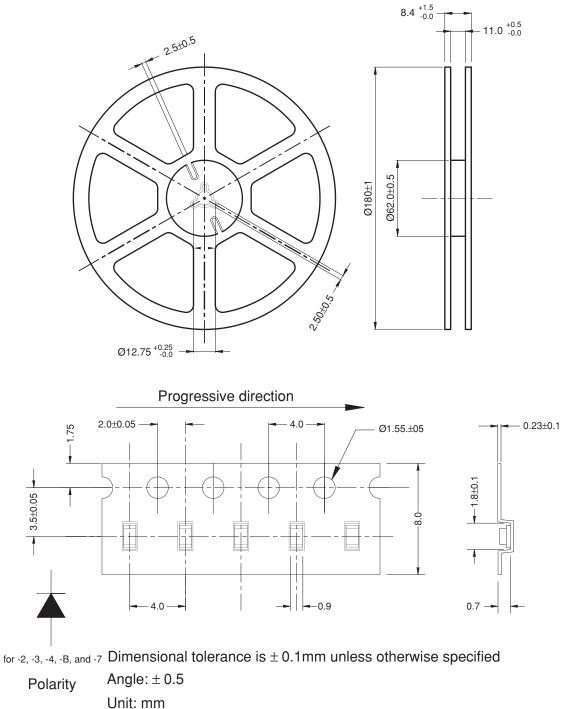
QTLP601C-3 Yellow

QTLP601C-4 Green

QTLP601C-7 AlGaAs Red

QTLP601C-B Blue

TAPE AND REEL DIMENSIONS



© 2003 Fairchild Semiconductor Corporation



QTLP601C-2 HER

QTLP601C-3 Yellow

QTLP601C-4 Green

QTLP601C-7 AlGaAs Red

QTLP601C-B Blue

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRESIDENT OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 2. 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.