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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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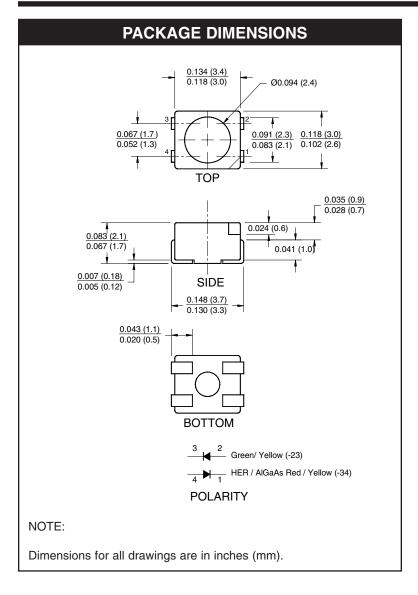


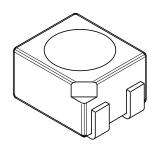


QTLP670C-23 HER/Yellow

QTLP670C-34 Yellow/Green

QTLP670C-24 HER/Green
QTLP670C-74 AlGaAs Red/Green





APPLICATIONS

- Automotive interior lighting
- Status indication for consumer electronics and office equipment

DESCRIPTION

These dual color surface mount LEDs are designed with flat top and sides for the ease of pick-and-place by automatic placement equipment. They are compatible with convective IR and vapor phase reflow soldering. The package size and configuration conform to EIA-535 BAAC standard specification for case size 3528 tantalum capacitor. These LEDs are ideal for backlighting and optical coupling into light pipes.

FEATURES

- Wide viewing angle of 120°
- Water clear optics
- Moisture-proof packaging
- Available in 0.315" (8mm) width tape on 7" (178mm) diameter reel; 2,000 units per reel



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ABSOLUTE MAXIMUM RATINGS (TA =25°C Unless otherwise specified)									
Parameter	Symbol	QTLP670C							
		-23	-24	-34	-74	Units			
Continuous Forward Current	I _F	30 / 30	30 / 30	30 / 30	30 / 30	mA			
Peak Forward Current		100 / 100	100 / 100	100 / 100	100 / 100				
(f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	160 / 160	160 / 160	160 / 160	180 / 160	mA			
Reverse Voltage	V_{R}	5	5	5	5	V			
Power Dissipation	P _D	84 / 84	84 / 84	84 / 84	72 / 84	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 (TA =25°C)									
Parameter	Symbol		11-14-						
		-23	-24	-34	-74	Units			
Luminous Intensity (mcd)									
Minimum	I _V	5 / 2.5	5 / 15	2.5 / 15	10 / 15	$I_F = 20mA$			
Typical		10 / 5	10 / 25	5 / 25	20 / 25				
Forward Voltage (V)									
Maximum	V _F	2.8 / 2.8	2.8 / 2.8	2.8 / 2.8	2.4 / 2.8	I _F = 20mA			
Typical		2.0 / 2.0	2.0 / 2.1	2.0 / 2.1	1.9 / 2.1				
Wavelength (nm)	,								
Peak	λ_{P}	635 / 585	635 / 565	585 / 565	660 / 565	I _F = 20mA			
Dominant	λ_{D}	630 / 590	630 / 570	590 / 570	645 / 570				
Spectral Line Half Width (nm)	$\Delta\lambda$	45 / 35	45 / 30	35 / 30	20 / 30	$I_F = 20mA$			
Viewing Angle (°)	201/ ₂	120	120	120	120	I _F = 20mA			



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TYPICAL PERFORMANCE CURVES

90 80 70 60 HER GREEN AIGAAS RED YELLOW 40 30 10 0 1.0 2.0 2.5 3.0 4.0 5.0 V_F - FORWARD VOLTAGE (V)

Fig. 1 Forward Current vs. Forward Voltage

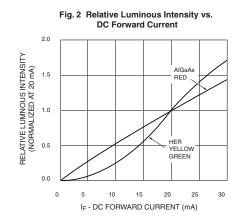


Fig. 3 Relative Intensity vs. Peak Wavelength

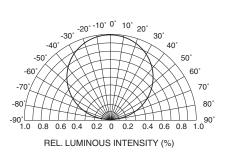
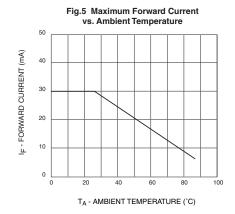


Fig.4 Radiation Diagram



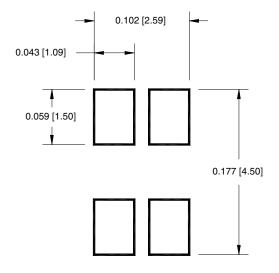


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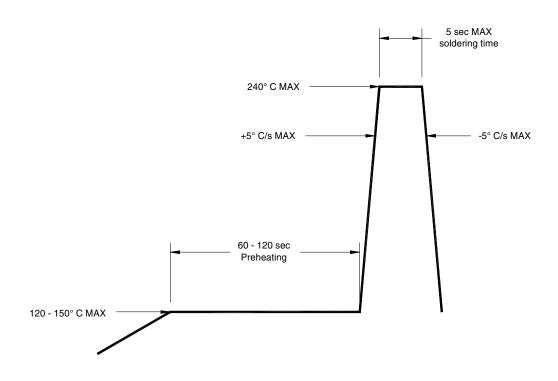
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RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE



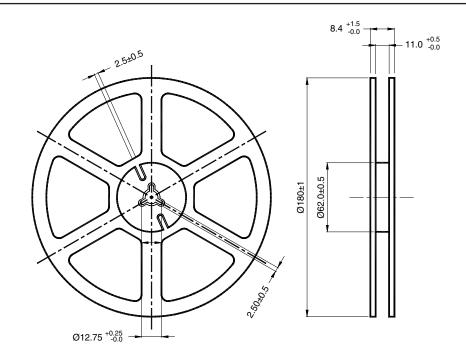


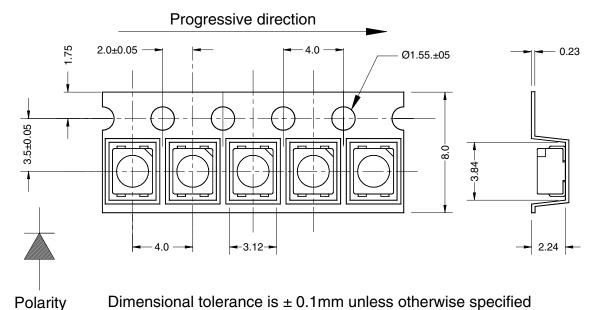
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TAPE AND REEL DIMENSIONS





Dimensional tolerance is \pm 0.1mm unless otherwise specified

Angle: ± 0.5 Unit: mm



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