

SEMICONDUCTOR®

QTLP600C-R Red

QTLP600C-E Orange

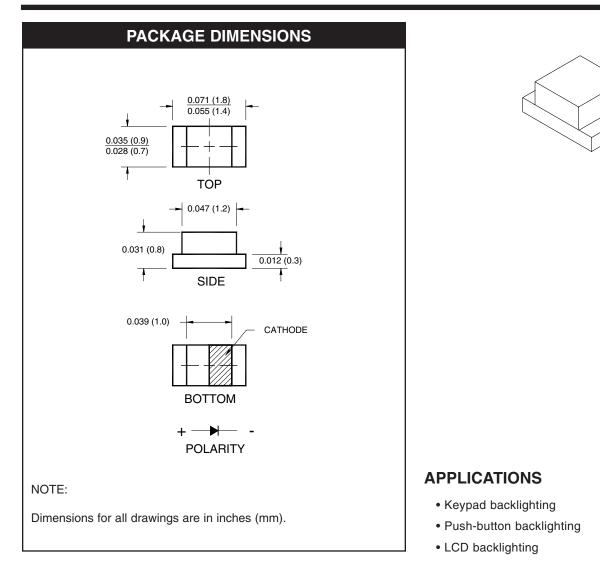
QTLP600C-O Yellow-Orange

QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue



DESCRIPTION

These surface mount chip LEDs are designed to fit industry standard footprint. Small size, low profile and wide viewing angle make these LEDs ideal choices for backlighting applications and panel illumination.

FEATURES

- Small footprint 1.6(L) X 0.8(W) X 0.8(H) mm
- AllnGaP technology for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
- Wide viewing angle of 100°

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

FAIRCHILD

SURFACE MOUNT LED LAMP SUPER BRIGHT 0603 (0.8 mm Height)

SEMICONDUCTOR®

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

Units

mA mA V

mW

°C ℃

°C

QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

72

QTLP600C-IB Blue

Power Dissipation

Operating Temperature

Storage Temperature

Lead Soldering Time

| ABSOLUTE MAXIMUM RATINGS (TA =25°C Unless otherwise specified) | | | | | | | |
|--|-----------------|-----|-----|----------|-----|-----|--|
| Devenueter | Cumhal | | | QTLP600C | ; | | |
| Parameter | Symbol | -R | -E | -0 | -Y | -AG | |
| Continuous Forward Current | IF | 30 | 30 | 30 | 25 | 30 | |
| Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10) | I _{FM} | 160 | 160 | 160 | 120 | 160 | |
| Reverse Voltage | V _R | 5 | 5 | 5 | 5 | 5 | |

72

72

72

-40 to +85

-40 to +90

260 for 5 sec

60

 P_D

T_{OPR}

T_{STG}

T_{SOL}

| - . | | QTL | .P600C | |
|-----------------------------------|---------------------|------------|----------|-------|
| Parameter | Symbol | -IB | -IG | Units |
| Continuous Forward Current | I _F | 30 | 30 | mA |
| Peak Forward Current | | 100 | 100 | |
| (f = 1.0 KHz, Duty Factor = 1/10) | I _{FM} 100 | 100 | mA | |
| Reverse Voltage | V _R | 5 | 5 | V |
| Power Dissipation | PD | 120 | 120 | mW |
| Operating Temperature | T _{OPR} | -40 to +85 | | °C |
| Storage Temperature | T _{STG} | -40 to +90 | | |
| Lead Soldering Time | T _{SOL} | 260 f | or 5 sec | °C |

FAIRCHILD

SURFACE MOUNT LED LAMP SUPER BRIGHT 0603 (0.8 mm Height)

SEMICONDUCTOR®

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

| | | QTLP600C | | | | | |
|-------------------------------|--------------------|----------|-----|-----|-----|-----|-----------------------|
| Part Number | Symbol | -R | -E | -0 | -Y | -AG | Condition |
| Luminous Intensity (mcd) | | | | | | | |
| Minimum | Ι _V | 15 | 15 | 15 | 15 | 10 | I _F = 20mA |
| Typical | | 35 | 35 | 35 | 35 | 15 | 1 |
| Forward Voltage (V) | | | | | | | |
| Maximum | V _F | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | I _F = 20mA |
| Typical | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| Wavelength (nm) | 、 、 | | | | | | |
| Peak | λ _P | 630 | 620 | 610 | 590 | 575 | I _F = 20mA |
| Dominant | λ _D | 624 | 615 | 605 | 589 | 573 | |
| Spectral Line Half Width (nm) | Δλ | 20 | 18 | 18 | 15 | 20 | I _F = 20mA |
| Viewing Angle (°) | 2 0 1/2 | 100 | 100 | 100 | 100 | 100 | I _F = 20mA |

| ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C) | | | | | | |
|---|-------------------|------|-------|-----------------------|--|--|
| | | QTLF | P600C | | | |
| Part Number | Symbol | -IB | -IG | Condition | | |
| Luminous Intensity (mcd) | | | | | | |
| Minimum | I _V | 15 | 70 | I _F = 20mA | | |
| Typical | | 25 | 110 | | | |
| Forward Voltage (V) | | | | | | |
| Maximum | V _F | 4.0 | 4.0 | I _F = 20mA | | |
| Typical | | 3.5 | 3.5 | | | |
| Wavelength (nm) | | | | | | |
| Peak | λ _P | 465 | 520 | $I_F = 20 mA$ | | |
| Dominant | λ _D | 470 | 525 | | | |
| Spectral Line Half Width (nm) | Δλ | 25 | 35 | I _F = 20mA | | |
| Viewing Angle (°) | 201/ ₂ | 100 | 100 | I _F = 20mA | | |



SEMICONDUCTOR®

SURFACE MOUNT LED LAMP SUPER BRIGHT 0603 (0.8 mm Height)

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

50

QTLP600C-IB Blue

TYPICAL PERFORMANCE CURVES (QTLP600C-R, -E, -O, -Y and -AG)

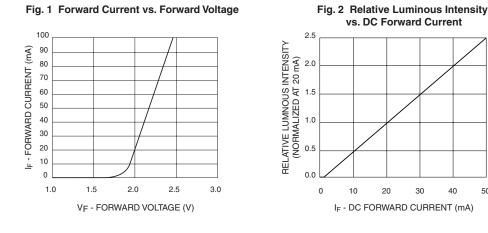


Fig. 3 Relative Intensity vs. Peak Wavelength

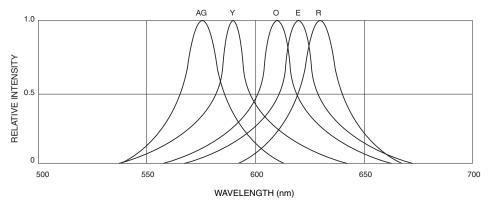


Fig.4 Radiation Diagram

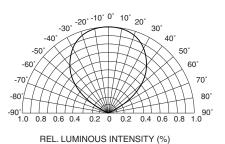
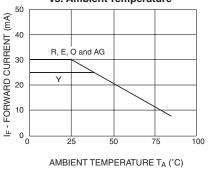


Fig.5 Maximum Forward Current vs. Ambient Temperature





SEMICONDUCTOR®

SURFACE MOUNT LED LAMP SUPER BRIGHT 0603 (0.8 mm Height)

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

QTLP600C-Y Yellow

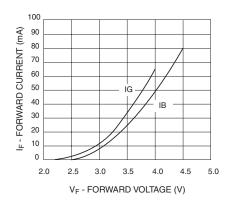
QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

TYPICAL PERFORMANCE CURVES (QTLP600C-IG and IB)





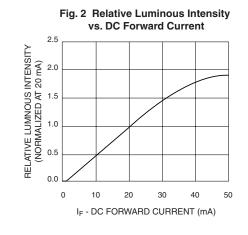


Fig. 3 Relative Intensity vs. Peak Wavelength

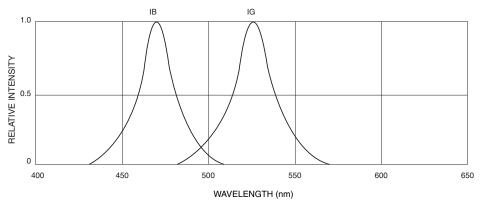
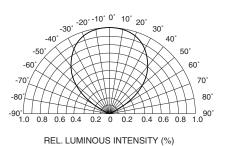
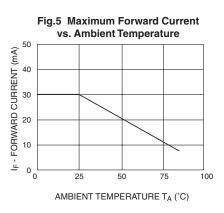


Fig.4 Radiation Diagram







SEMICONDUCTOR®

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

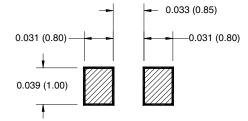
QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

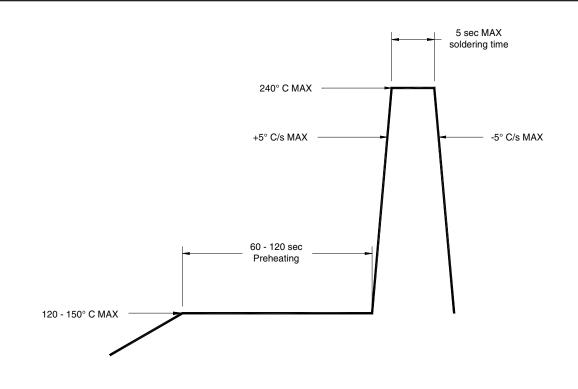
QTLP600C-IG True Green

QTLP600C-IB Blue

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE





SEMICONDUCTOR®

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

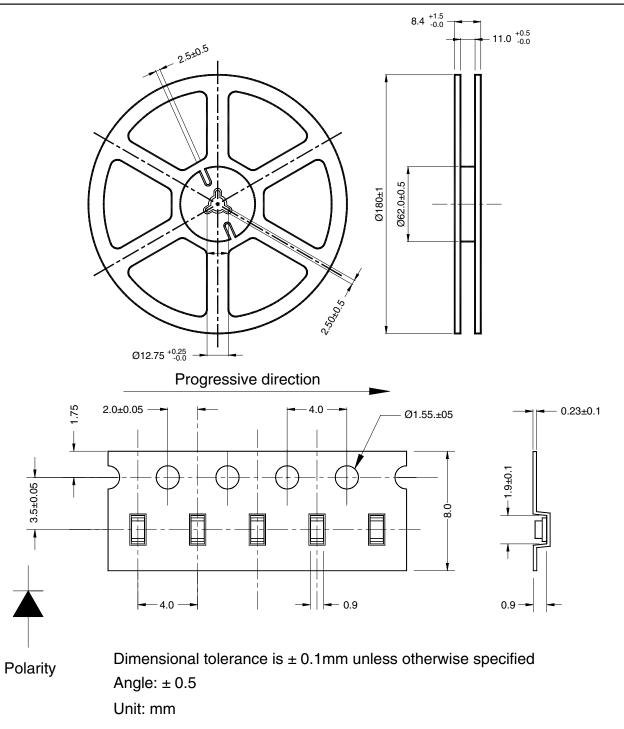
QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

TAPE AND REEL DIMENSIONS





SEMICONDUCTOR®

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

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Product Folder - Fairchild P/N QTLP600C-AG - Yellow-Green Surface Mount LED Lamp - Super Bright 0603 (0.8 mm Height)

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| applications New products Product selection and parametric search Cross-reference search | These surface mount chip LEDs are designed to fit the industry standard footprint. Small size, low profile and wide viewing angle make these LEDs ideal choices for backlighting applications and panel illumination. | This page <u>Print version</u> | Quality and reliability Dotted line Dotted line Design tools |
| technical information | back to top • • Features | | |
| technical support my Fairchild company | Small footprint - 1.6(L) x 0.8(W) x 0.8(H) mm AllnGaP technology for -R, -E, -O, -Y and -AG | | - |

- InGaN/SiC technology for -IG and -IB
- Wide viewing angle of 100°
- Water clear optics
- Moisture-proof packaging
- Available in 0.315-inch (8 mm) width tape on 7-inch (178 mm) diameter reel; 2,000 units per reel

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- Keypad backlighting
- Push-button backlighting
- LCD backlighting

Product status/pricing/packaging

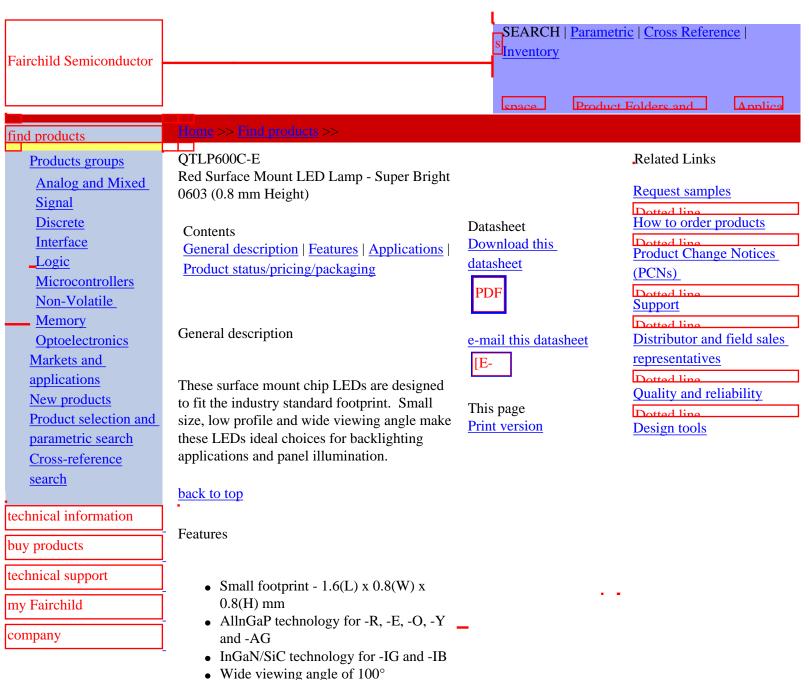
| Product | Product status | Pricing* | Inventory check & ordering | Package type | Packing method |
|--------------|-----------------|----------|-------------------------------|--------------|----------------|
| QTLP600CAGTR | Full Production | \$0.071 | Purchase | SMD | BOX |

* Fairchild 1,000 piece Budgetary Pricing

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Product Folder - Fairchild P/N QTLP600C-E - Red Surface Mount LED Lamp - Super Bright 0603 (0.8 mm Height)



- Water clear optics
- Moisture-proof packaging
- Available in 0.315-inch (8 mm) width tape on 7-inch (178 mm) diameter reel; 2,000 units per reel

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- Keypad backlighting
- Push-button backlighting
- LCD backlighting

Product status/pricing/packaging

| Product | Product status | Pricing* | Inventory check & ordering | Package type | Packing method |
|-------------|-----------------|----------|-------------------------------|--------------|----------------|
| QTLP600CETR | Full Production | \$0.051 | Purchase | SMD | BOX |

* Fairchild 1,000 piece Budgetary Pricing

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| | Wide viewing angle of 100° Water clear optics Moisture-proof packaging Available in 0.315-inch (8 mm) width tape on 7-inch (178 mm) diameter reel; 2,000 units per reel | | |

- Keypad backlighting
- Push-button backlightingLCD backlighting

Product status/pricing/packaging

| Product | Product status | Pricing* | Inventory check & ordering | Package type | Packing method |
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| QTLP600CIBTR | Full Production | \$0.67 | Purchase | SMD | BOX |

* Fairchild 1,000 piece Budgetary Pricing

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| technical information buy products technical support | back to top Features Small footprint - 1.6(L) x 0.8(W) x | | |

- my Fairchild
- company

- Small footprint $1.6(L) \ge 0.8(W) \ge$ 0.8(H) mm
- AllnGaP technology for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
- Wide viewing angle of 100°
- Water clear optics
- Moisture-proof packaging
- Available in 0.315-inch (8 mm) width tape on 7-inch (178 mm) diameter reel; 2,000 units per reel

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

Product status/pricing/packaging

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|--------------|-----------------|----------|-------------------------------|--------------|----------------|
| QTLP600CIGTR | Full Production | \$0.79 | Purchase | SMD | BOX |

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| technical support my Fairchild | • Small footprint - 1.6(L) x 0.8(W) x 0.8(H) mm | | |

company

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and -AG

• Water clear optics

2,000 units per reel

Applications

- Keypad backlighting
- Push-button backlighting

• AllnGaP technology for -R, -E, -O, -Y

• InGaN/SiC technology for -IG and -IB

• Available in 0.315-inch (8 mm) width tape on 7-inch (178 mm) diameter reel;

• Wide viewing angle of 100°

• Moisture-proof packaging

• LCD backlighting

Product status/pricing/packaging

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| <u>New products</u> <u>Product selection and</u> <u>parametric search</u> <u>Cross-reference</u> search | to fit the industry standard footprint. Small size, low profile and wide viewing angle make these LEDs ideal choices for backlighting applications and panel illumination. | This page <u>Print version</u> | Quality and reliability Dotted line Design tools |
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| technical support | • Small footprint - 1.6(L) x 0.8(W) x | | |
| my Fairchild company | 0.8(H) mm AllnGaP technology for -R, -E, -O, -Y and -AG | - | |

- InGaN/SiC technology for -IG and -IB
- Wide viewing angle of 100°
- Water clear optics
- Moisture-proof packaging
- Available in 0.315-inch (8 mm) width tape on 7-inch (178 mm) diameter reel; 2,000 units per reel

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

Product status/pricing/packaging

| Product | Product status | Pricing* | Inventory check & ordering | Package type | Packing method |
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| QTLP600CRTR | Full Production | \$0.051 | Purchase | SMD | BOX |

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| <u>Optoelectronics</u> | General description | e-mail this datashe | |
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| New products | These surface mount chip LEDs are designed to fit the industry standard footprint. Small | | Quality and reliability |
| Product selection and | size, low profile and wide viewing angle make | This page Print version | Dotted line |
| parametric search | these LEDs ideal choices for backlighting | <u>I IIII Version</u> | Design tools |
| Cross-reference | applications and panel illumination. | | |
| <u>search</u> | back to top | | |
| technical information | • | | |
| | Features | | |
| buy products | - | | |
| technical support | • Small footprint - 1.6(L) x 0.8(W) x | | |
| my Fairchild | 0.8(H) mm | | ••• |
| | • AllnGaP technology for -R, -E, -O, -Y | _ | |

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Applications

and -AG

• Water clear optics

• InGaN/SiC technology for -IG and -IB

• Available in 0.315-inch (8 mm) width tape on 7-inch (178 mm) diameter reel;

• Wide viewing angle of 100°

• Moisture-proof packaging

2,000 units per reel

Keypad backlighting Push-button backlighting

• LCD backlighting

Product status/pricing/packaging

| | Product | Product status | Pricing* | Inventory check & ordering | Package type | Packing method |
|----|------------|-----------------|----------|-------------------------------|--------------|----------------|
| QT | TLP600CYTR | Full Production | \$0.051 | Purchase | SMD | BOX |

* Fairchild 1,000 piece Budgetary Pricing

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