

5mm
LED CBI® Circuit Board Indicator
Vertical, Various Heights

Dialight

561-xx0x-xxx



Features

- Multiple CBIs form horizontal LED arrays on 7.24mm (0.285") center-lines.
- Housing stand-offs facilitate PCB cleaning
- Solderability per MIL-STD-202F, method 208F
- LEDs are safe for direct viewing per IEC 825-1, EN-60825-1
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 29%(all sizes)

Custom Devices

- Contact factory for other LED types or alternate heights

Tolerance note: As noted, otherwise:

- LED Protrusion: ±0.04 mm [±0.016]
- CBI Housing: ±0.02mm[±0.008]

PART NO.

INTEGRAL RESISTOR, 5 VOLTS

561-0104-xxx

COLOR

Red

LOW CURRENT

561-1101-xxx

Red

561-1201-xxx

Yellow

561-1301-xxx

Green

HIGH EFFICIENCY

561-0901-xxx

Orange

561-2101-xxx

Red

561-2201-xxx

Green

561-2301-xxx

Yellow

HIGH EFFICIENCY, TINTED, NON DIFFUSED

561-2401-xxx

Red

561-2501-xxx

Green

561-2601-xxx

Yellow

SUPER BRIGHT, DIFFUSED

561-5101-xxx

Red

561-5201-xxx

Green

561-5301-xxx

Yellow

SUPER BRIGHT, WATER CLEAR (Non-Tinted, Non-Diffused)

561-5501-xxx

Red

561-5601-xxx

Green

561-5701-xxx

Yellow

BI-COLOR

561-3001-xxx

Red/Green

561-3101-xxx

Yellow/Green

6

NEW
NEW



561-xx0x-xxx

Typical Operating Characteristics ($T_A=25^{\circ}\text{C}$)

See LED data sheet for additional information

INTEGRAL RESISTOR, 5 VOLTS *See page 6-55 and 6-56 for Reference Only LED Drive Circuit Examples. See page 6-57 for Pin Out*

| Part Number | Color | Peak Wavelength nm | I_V mcd | Test Voltage | Forward Current (mA) | Viewing Angle $2\Theta_{\%}$ | LED Data sheet | Page # |
|--------------|-------|--------------------|-----------|--------------|----------------------|------------------------------|----------------|--------|
| 561-0104-xxx | Red | 635 | 8 | 5 | 10 | 60° | 521-9183 | 6-41 |

LOW CURRENT

| Part Number | Color | Peak Wavelength nm | I_V mcd | V_F Volts | Test Current (mA) | Viewing Angle $2\Theta_{\%}$ | LED Data sheet | Page # |
|--------------|--------|--------------------|-----------|-------------|-------------------|------------------------------|----------------|--------|
| 561-1101-xxx | Red | 635 | 2 | 1.8 | 2 | 50° | 521-9320 | 6-42 |
| 561-1201-xxx | Yellow | 583 | 1.8 | 1.9 | 2 | 50° | 521-9321 | 6-42 |
| 561-1301-xxx | Green | 565 | 1.8 | 1.8 | 2 | 50° | 521-9327 | 6-42 |

HIGH EFFICIENCY

| Part Number | Color | Peak Wavelength nm | I_V mcd | V_F Volts | Test Current (mA) | Viewing Angle $2\Theta_{\%}$ | LED Data sheet | Page # |
|--------------|--------|--------------------|-----------|-------------|-------------------|------------------------------|----------------|--------|
| 561-0901-xxx | Orange | 600 | 7 | 1.9 | 10 | 60° | 521-9704 | 6-43 |
| 561-2101-xxx | Red | 635 | 7 | 2.2 | 10 | 60° | 521-9246 | 6-43 |
| 561-2201-xxx | Green | 565 | 32 | 2* | 10 | 50° | 5HD-9270-2 | 6-49 |
| 561-2301-xxx | Yellow | 590 | 10 | 2.4* | 10 | 70° | 5HD-9271-2 | 6-49 |

* $I_F = 20\text{mA}$

HIGH EFFICIENCY, TINTED, NON-DIFFUSED

| Part Number | Color | Peak Wavelength nm | I_V mcd | V_F Volts | Test Current (mA) | Viewing Angle $2\Theta_{\%}$ | LED Data sheet | Page # |
|--------------|--------|--------------------|-----------|-------------|-------------------|------------------------------|----------------|--------|
| 561-2401-xxx | Red | 635 | 60 | 2.2 | 10 | 35° | 521-9247 | 6-44 |
| 561-2501-xxx | Green | 565 | 70 | 2.3 | 10 | 24° | 521-9251 | 6-44 |
| 561-2601-xxx | Yellow | 583 | 50 | 2.2 | 10 | 35° | 521-9249 | 6-44 |

SUPER BRIGHT, DIFFUSED

| Part Number | Color | Peak Wavelength nm | I_V mcd | V_F Volts | Test Current (mA) | Viewing Angle $2\Theta_{\%}$ | LED Data sheet | Page # |
|--------------|--------|--------------------|-----------|-------------|-------------------|------------------------------|----------------|--------|
| 561-5101-xxx | Red | 650 | 34 | 2.1 | 20 | 50° | 5SD-9441 | 6-53 |
| 561-5201-xxx | Green | 563 | 34 | 2.2 | 20 | 50° | 5SD-9456 | 6-53 |
| 561-5301-xxx | Yellow | 585 | 34 | 2.2 | 20 | 50° | 5SD-9455 | 6-53 |

SUPER BRIGHT, WATER CLEAR (NON-TINTED, NON-DIFFUSED)

| Part Number | Color | Peak Wavelength nm | I_V mcd | V_F Volts | Test Current (mA) | Viewing Angle $2\Theta_{\%}$ | LED Data sheet | Page # |
|--------------|--------|--------------------|-----------|-------------|-------------------|------------------------------|----------------|--------|
| 561-5501-xxx | Red | 635 | 125 | 2.2 | 20 | 24° | 521-9464 | 6-47 |
| 561-5601-xxx | Green | 565 | 120 | 2.3 | 20 | 24° | 521-9465 | 6-47 |
| 561-5701-xxx | Yellow | 583 | 140 | 2.2 | 20 | 24° | 521-9466 | 6-47 |

BI-COLOR

| Part Number | Color | Peak Wavelength nm | I_V mcd | V_F Volts | Test Current (mA) | Viewing Angle $2\Theta_{\%}$ | LED Data sheet | Page # |
|--------------|--------------|--------------------|-----------|-------------|-------------------|------------------------------|----------------|--------|
| 561-3001-xxx | Red/Green | 660/565 | 90/40 | 1.8/2.1 | 20 | 60° | 521-9651 | 6-46 |
| 561-3101-xxx | Yellow/Green | 585/565 | 8.7/8.7 | 2.1/2.1 | 20 | 50° | 521-9724 | 6-46 |



5mm Discrete LED Integral Resistor, 5 Volts Diffused

Dialight

521-9183, -9284



| PART NO. | LED COLOR |
|----------|-----------|
| 521-9183 | Red |
| 521-9284 | Yellow |

MOUNTING CLIP: 515-0004
located on page 6-48

| ABSOLUTE MAXIMUM RATINGS (T _A =25°C) | Red | Yellow |
|---|------------------------------------|----------|
| | -9183 | -9284 |
| Forward Voltage (V) | 7.5 | 7.5 |
| Derating (V/°C) From 50°C | .071 | .071 |
| Operating Temperature (°C) | -40/+85 | -40/+85 |
| Storage Temperature (°C) | -55/+100 | -55/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | |

Solder Adherence per MIL-STD-202E, Method 208C

| OPERATING CHARACTERISTICS (T _A =25°C) | | Red | Yellow |
|--|---------|-------|--------|
| | | -9183 | -9284 |
| Luminous Intensity (mcd) | Min. | 2 | 2 |
| | Typical | 8 | 8 |
| Peak Wavelength (nm) | Typical | 635 | 583 |
| Viewing Angle (2θ ^{1/2}) | Typical | 60° | 60° |
| Forward Current (I) | Typical | 10 | 10 |
| | Max | 15 | 15 |
| Reverse Voltage (V), I _R =100μA | Min. | 5 | 5 |

θ^{1/2} is the off axis angle at which the luminous intensity is half the axial luminous intensity

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5mm Discrete LED
Low Current, 2mA
Diffused

Dialight

521-9320, -9321, -9327



| PART NO. | COLOR |
|----------|--------|
| 521-9320 | Red |
| 521-9321 | Yellow |
| 521-9327 | Green |

MOUNTING CLIP: 515-0004
 located on page 6-48

ABSOLUTE MAXIMUM RATINGS (TA=25°C)

| | Red -9320 | Yellow -9321 | Green -9327 |
|--|------------------------------------|-----------------|----------------|
| Power Dissipation (mW) | 27 | 36 | 24 |
| Derating (mA/°C) From 92°C | 1 | 1 | 1 |
| Forward Current (mA) | 7 | 7 | 7 |
| Peak Current (mA) Pulse width = 10 μs | 500 | 500 | 500 |
| Operating Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Storage Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | | |

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS (TA=25°C)

| | | Red -9320 | Yellow -9321 | Green -9327 |
|--------------------------------|---------|--------------|-----------------|----------------|
| Luminous Intensity (mcd) | Min. | 1.2 | 1.2 | 1.2 |
| | Typical | 2 | 1.8 | 1.8 |
| Peak Wavelength (nm) λ Peak | Typical | 635 | 583 | 565 |
| Viewing Angle (2θ ½) | Typical | 50° | 50° | 50° |
| Forward Voltage (V) IF=2mA | Typical | 1.8 | 1.9 | 1.8 |
| | Max. | 2.2 | 2.7 | 2.2 |
| Reverse Voltage (V), IR=50μA | Min. | 5 | 5 | 5 |

θ ½ is the off axis angle at which the luminous intensity is half the axial luminous intensity

5mm Discrete LED
High Efficiency
Diffused

Dialight

521-9246, -9248, -9250, -9704



| PART NO. | COLOR |
|----------|--------|
| 521-9246 | Red |
| 521-9248 | Yellow |
| 521-9250 | Green |
| 521-9704 | Orange |

MOUNTING CLIP: 515-0004
 located on page 6-48

| ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$) | Red -9246 | Yellow -9248 | Green -9250 | Orange -9704 |
|---|--|------------------------|-----------------------|------------------------|
| Power Dissipation (mW) | 135 | 85 | 135 | 135 |
| Derating (mW/ $^\circ\text{C}$) From 25 $^\circ\text{C}$ 1. (mA/ $^\circ\text{C}$) From 50 $^\circ\text{C}$ | 1.8 | 1.6 | 1.8 | .5' |
| Forward Current (mA) | 25 | 20 | 25 | 30 |
| Peak Current (mA) Pulse width = 10 μs | 500 | 500 | 500 | 500 |
| Operating Temperature ($^\circ\text{C}$) | -55/+100 | -55/+100 | -20/+100 | -55/+100 |
| Storage Temperature ($^\circ\text{C}$) | -55/+100 | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260 $^\circ\text{C}$, 5 seconds, 1.6 mm from case | | | |

Solder Adherence per MIL-STD-202E, Method 208C

| OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$) | | Red -9246 | Yellow -9248 | Green -9250 | Orange -9704 |
|---|---------|---------------------|------------------------|-----------------------|------------------------|
| Luminous Intensity (mcd) $I_F=10\text{mA}$ | Min. | 4 | 4 | 4.2 | 4 |
| | Typical | 7 | 8 | 5.2 | 7 |
| Peak Wavelength (nm) λ_{Peak} | Typical | 635 | 583 | 565 | 600 |
| Viewing Angle (2θ °) | Typical | 60° | 60° | 60° | 60° |
| Forward Voltage (V) $I_F=10\text{mA}$ | Typical | 2.2 | 2.2 | 2.3 | 1.9 |
| | Max. | 3 | 3 | 3 | 2.4 |
| Reverse Voltage (V), $I_R=100\mu\text{A}$ | Min. | 5 | 5 | 5 | 5 |

θ is the off axis angle at which the luminous intensity is half the axial luminous intensity

**5mm Discrete LED
Bi-Color
Non-Tinted, Diffused**

Dialight

521-9651, -9724



| PART NO. | LED COLOR |
|----------|--------------|
| 521-9651 | Red/Green |
| 521-9724 | Yellow/Green |

MOUNTING CLIP: 515-0005
located on page 6-48

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

| | Red/Green -9651 | Yellow/Green -9724 |
|--|------------------------------------|------------------------------|
| Power Dissipation (mW) | 100/100 | 60/100 |
| Forward Current (mA) | 40/30 | 20/30 |
| Derating (mA/°C) From 50°C | .5/.4 | .25/.40 |
| Peak Current (mA) <i>Pulse width = 100 μs</i> | 200/120 | 80/120 |
| Operating Temperature (°C) | -55/+100 | -55/+100 |
| Storage Temperature (°C) | -55/+100 | -55/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | |

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)

| | | Red/Green -9651 | Yellow/Green -9724 |
|---|---------|---------------------------|------------------------------|
| Luminous Intensity (mcd) | Min. | 29/12.6 | 2.5/2.5 |
| | Typical | 90/40 | 8.7/8.7 |
| Peak Wavelength (nm) λ_{Peak} | Typical | 660/565 | 585/565 |
| Viewing Angle ($2\theta^{\circ}$) | Typical | 60° | 50° |
| Forward Voltage (V) | Typical | 1.8/2.1 | 2.1/2.1 |
| | Max. | 2.4/2.8 | 2.8/2.8 |

θ° is the off axis angle at which the luminous intensity is half the axial luminous intensity

5mm Discrete LED
High Brightness
Non-Diffused

Dialight

521-9247, -9249, -9251



| PART NO. | COLOR |
|----------|--------|
| 521-9247 | Red |
| 521-9249 | Yellow |
| 521-9251 | Green |

MOUNTING CLIP: 515-0004
 located on page 6-48

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

| | Red -9247 | Yellow -9249 | Green -9251 |
|--|------------------------------------|------------------|----------------|
| Power Dissipation (mW) | 135 | 85 | 135 |
| Derating (mW/°C) <i>From 25°C 1. From 50°C</i> | 1.8 | 1.6 ¹ | 1.8 |
| Forward Current (mA) | 30 | 20 | 30 |
| Peak Current (mA) <i>Pulse width = 10μs</i> | 500 | 500 | 500 |
| Operating Temperature (°C) | -55/+100 | -55/+100 | -20/+100 |
| Storage Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | | |

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)

| | | Red -9247 | Yellow -9249 | Green -9251 |
|---|---------|--------------|-----------------|----------------|
| Luminous Intensity (mcd) | Min. | 25 | 25 | 25 |
| | Typical | 60 | 50 | 70 |
| Peak Wavelength (nm) | Typical | 635 | 583 | 565 |
| Viewing Angle (2θ °) | Typical | 35° | 35° | 24° |
| Forward Voltage (V) | Typical | 2.2 | 2.2 | 2.3 |
| | Max. | 3 | 3 | 3 |
| Reverse Voltage (V), $I_R=100\mu\text{A}$ | Min. | 5 | 5 | 5 |

θ is the off axis angle at which the luminous intensity is half the axial luminous intensity

5mm Discrete LED
Super Bright, Water Clear
Non-Tinted, Non-Diffused

Dialight

521-9464,-9465,-9466



PART NO. **COLOR**

| | |
|----------|--------|
| 521-9464 | Red |
| 521-9465 | Green |
| 521-9466 | Yellow |

MOUNTING CLIP: 515-0004
 located on page 6-48

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

| | Red -9464 | Green -9465 | Yellow -9466 |
|---|-------------------------------------|-----------------------|------------------------|
| Power Dissipation (mW) | 135 | 135 | 85 |
| Derating (mW/°C) <i>From 25°C 1. From 50 °C</i> | 1.8 | 1.8 | 1.6 ¹ |
| Forward Current (mA) | 30 | 30 | 20 |
| Peak Current (mA) <i>Pulse width = 10 μs</i> | 500 | 500 | 500 |
| Operating Temperature (°C) | -55/+100 | -20/+100 | -55/+100 |
| Storage Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260 °C, 5 seconds, 1.6 mm from case | | |

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)

| | | Red -9464 | Green -9465 | Yellow -9466 |
|---|---------|---------------------|-----------------------|------------------------|
| Luminous Intensity (mcd) | Min. | 80 | 80 | 80 |
| | Typical | 125 | 120 | 140 |
| Peak Wavelength (nm) | Typical | 635 | 565 | 583 |
| Viewing Angle (2θ °) | Typical | 24° | 24° | 24° |
| Forward Voltage (V) | Typical | 2.2 | 2.3 | 2.2 |
| | Max. | 3 | 3 | 3 |
| Reverse Voltage (V), $I_R=100\mu\text{A}$ | Min. | 5 | 5 | 5 |

¹ θ is the off axis angle at which the luminous intensity is half the axial luminous intensity

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5mm
High Efficiency
Diffused



5HD-xxxx

*** NOT A VALID PART NUMBER. THIS SHEET IS FOR REFERENCE ONLY.**

| TYPE | COLOR |
|-------------|--------|
| *5HD-9269 | Red |
| *5HD-9270-2 | Green |
| *5HD-9270-5 | Green |
| *5HD-9271-2 | Yellow |
| *5HD-9271-5 | Yellow |

ABSOLUTE MAXIMUM RATINGS

| (T _A =25°C) | Red -9269 | Green -9270-2 | Green -9270-5 | Yellow -9271-2 | Yellow -9271-5 |
|---|------------------------------------|------------------|------------------------|-------------------|------------------------|
| Power Dissipation (mW) Derating (mW/°C) From 50°C 1. From 40°C | 60 .66 ¹ | 140 | 75 .66 ¹ | 200 | 60 .66 ¹ |
| Forward Current (mA) Derating (mA/°C) From 25°C | 20 | 40 .6 | 25 | 60 .8 | 20 |
| Peak Current (mA) Pulse width = 1μs | 60 | 500 | 60 | 1000 | 60 |
| Operating Temperature (°C) | -25/+85 | -55/+100 | -25/+85 | -55/+100 | -25/+85 |
| Storage Temperature (°C) | -30/+100 | -55/+100 | -30/+100 | -55/+100 | -30/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | | | | |

Solder Adherence per MIL-STD-202E, Method 208C

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OPERATING CHARACTERISTICS

| (T _A =25°C) | | Red -9269 | Green -9270-2 | Green -9270-5 | Yellow -9271-2 | Yellow -9271-5 |
|--------------------------|---|--------------|------------------|------------------|-------------------|-------------------|
| Luminous Intensity (mcd) | Min. | 2.2 | 4 | 3.6 | 4 | 2.2 |
| | Typical | 7 | 32 | 10 | 10 | 6.3 |
| Peak Wavelength (nm) | Typical | 650 | 565 | 563 | 590 | 585 |
| | λ Peak | | | | | |
| Viewing Angle (2Θ °) | Typical | 50° | 50° | 65° | 70° | 50° |
| Forward Voltage (V) | Typical | 2.2 | 2* | 2.1 | 2.4* | 2.1 |
| | Max. | 2.5 | 2.6* | 3 | 3* | 3 |
| Reverse Voltage (V), | Min. | 5 | 5* | 3* | 5* | 3 |
| | I _R =100μA *I _R =10μA | | | | | |

Θ¹ is the off axis angle at which the luminous intensity is half the axial luminous intensity

5mm
General Purpose
Diffused

Dialight

5ND-xxxx

*** NOT A VALID PART
NUMBER. THIS SHEET IS FOR
REFERENCE ONLY.**

TYPE

COLOR

*5ND-9672

Red

*5ND-9673

Yellow

*5ND-9674

Green

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

| | Red -9672 | Yellow -9673 | Green -9674 |
|---|------------------------------------|------------------------|-----------------------|
| Power Dissipation (mW) | 80 | 60 | 100 |
| Forward Current (mA) | 40 | 20 | 30 |
| Derating (mA/°C) <i>From 25°C</i> | .5 | .25 | .4 |
| Peak Current (mA) <i>Pulse width = 10 μs</i> | 200 | 80 | 120 |
| Operating Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Storage Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | | |

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)

| | | Red -9672 | Yellow -9673 | Green -9674 |
|---|---------|---------------------|------------------------|-----------------------|
| Luminous Intensity (mcd) | Min. | 3.5 | 3.5 | 3.5 |
| | Typical | 12.3 | 12.3 | 12.3 |
| Peak Wavelength (nm) | Typical | 635 | 585 | 565 |
| Viewing Angle ($2\theta^{\circ}$) | Typical | 60° | 60° | 60° |
| Forward Voltage (V) | Typical | 2 | 2.1 | 2.1 |
| | Max. | 2.8 | 2.8 | 2.8 |
| Reverse Voltage (V), $I_R=100\mu\text{A}$ | Min. | 5 | 5 | 5 |

θ° is the off axis angle at which the luminous intensity is half the axial luminous intensity

6

5mm
Integral Resistor
Diffused

Dialight
5RD-xxxx

*** NOT A VALID PART
NUMBER. THIS SHEET IS FOR
REFERENCE ONLY.**

| TYPE | COLOR | VOLTS |
|-----------|--------|-------|
| *5RD-9378 | Green | 12 |
| *5RD-9379 | Yellow | 12 |
| *5RD-9422 | Red | 5 |
| *5RD-9423 | Green | 5 |

ABSOLUTE MAXIMUM RATINGS

| (T _A =25°C) | Green 12V -9378 | Yellow 12V -9379 | Red 5V -9422 | Green 5V -9423 |
|--|------------------------------------|---------------------|-----------------|-------------------|
| Forward Voltage (V) *(T _A =70°C) | 15 * | 15 | 7.5 | 7.5 |
| Operating Temperature (°C) | -20/+85 | -40/+85 | -40/+85 | -20/+85 |
| Storage Temperature (°C) | -55/+100 | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | | | |

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS

| (T _A =25°C) | | Green 12V -9378 | Yellow 12V -9379 | Red 5V -9422 | Green 5V -9423 |
|--|---------|--------------------|---------------------|-----------------|-------------------|
| Luminous Intensity (mcd) | Min. | 1.5* | 1.5* | 1 | 2 |
| | Typical | 4* | 4* | 2 | 8 |
| V _F =5V, *V _F =12V | | | | | |
| Peak Wavelength (nm) | Typical | 565 | 583 | 655 | 565 |
| λ Peak | | | | | |
| Viewing Angle (2θ *) | Typical | 60° | 60° | 60° | 60° |
| Forward Current (mA), V _F =5V | Typical | 13* | 13* | 13 | 12 |
| *V _F =12V | Max. | 20* | 20* | 20 | 15 |
| Reverse Voltage (V), I _R =100μA | Typical | 5 | 5 | 5 | 5 |

θ¹ is the off axis angle at which the luminous intensity is half the axial luminous intensity

5mm
Super Bright LED
Diffused

Dialight

5SD-XXXX

*** NOT A VALID PART
NUMBER. THIS SHEET IS FOR
REFERENCE ONLY.**

| TYPE | COLOR |
|-----------|--------|
| *5SD-9441 | Red |
| *5SD-9455 | Yellow |
| *5SD-9456 | Green |

| ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$) | Red -9441 | Yellow -9455 | Green -9456 |
|---|------------------------------------|-----------------|----------------|
| Power Dissipation (mW) | 75 | 75 | 75 |
| Forward Current (mA) | 25 | 25 | 25 |
| Derating (mA/°C) <i>From 50°C</i> *(mW/°C) <i>From 40°C</i> | .66* | .5 | .5 |
| Peak Current (mA) <i>Pulse width = 1 ms</i> | 60 | 60 | 60 |
| Operating Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Storage Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | | |

Solder Adherence per MIL-STD-202E, Method 208C

| OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$) | | Red -9441 | Yellow -9455 | Green -9456 |
|---|---------|--------------|-----------------|----------------|
| Luminous Intensity (mcd) | Min. | 17 | 17 | 17 |
| | Typical | 34 | 34 | 34 |
| Peak Wavelength (nm) | Typical | 650 | 585 | 563 |
| Viewing Angle ($2\theta_{\frac{1}{2}}$) | Typical | 50° | 50° | 50° |
| Forward Voltage (V) | Typical | 2.1 | 2.2 | 2.2 |
| | Max. | 2.55 | 3 | 3 |
| Reverse Voltage (V), $I_R=10\mu\text{A}$ | Min. | 3 | 3 | 3 |

$\theta_{\frac{1}{2}}$ is the off axis angle at which the luminous intensity is half the axial luminous intensity

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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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