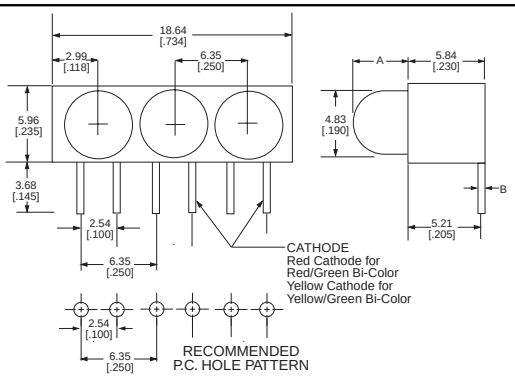
# 5mm
# LED CBI® Circuit Board Indicator
# Square Back Housing, Tri-Block

Dialight

# 550-xx05-003




Dimension A: 3.43 [.135] for -0205 to -0405, 5.0 [.197] for all others
Dimension B: .635 [.025] for -0505 to -0705, .508 [.020] for all others
Hole Diameter: 1.22 [.048] for .635 [.025] leads, 1.02 [.040] for all others
Dimensions in mm [inches]

Standard Polarity shown in drawing: Cathode right

## Features

- Multiple CBIs form horizontal LED arrays on 6.35mm (0.250") center-lines.
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.560 g
- 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
- Compatible with:
  550-xx05 Single-Block
  550-xx05-004 Quad-Block

## Custom Combinations

- Contact factory for information on custom color combinations

## Tolerance note: As noted, otherwise:

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

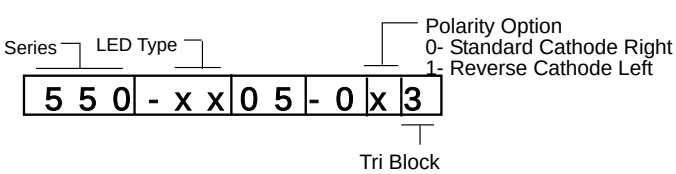
| PART NO. | COLOR* |
|---|---|
| **GENERAL PURPOSE** | |
| 550-0205-003 | Green |
| 550-0305-003 | Yellow |
| 550-0405-003 | Red |
| **INTEGRAL RESISTOR** | |
| 550-0505-003 | Red, 5V |
| 550-0705-003 | Green, 5V |
| 550-0805-003 | Yellow, 5V |
| **LOW CURRENT** | |
| 550-1105-003 | Red |
| 550-1205-003 | Yellow |
| 550-1305-003 | Green |
| **HIGH EFFICIENCY** | |
| 550-2205-003 | Green |
| 550-2305-003 | Yellow |
| 550-2405-003 | Red |
| 550-2505-003 | Orange |
| **BI-COLOR** | |
| 550-3005-003 | Red/Green |
| 550-3105-003 | Yellow/Green |
| **SUPER BRIGHT, DIFFUSED** | |
| 550-5105-003 | Red |
| 550-5205-003 | Green |
| 550-5305-003 | Yellow |
| **SUPER BRIGHT, WATER CLEAR (Non-tinted, Non-diffused)** | |
| 550-5505-003 | Red |
| 550-5605-003 | Green |
| 550-5705-003 | Yellow |

NEW

* LED 1, LED 2, LED 3

**Reverse Polarity (Cathode Left) option available.**
**See Part Number Ordering Code.**

**PART NUMBER ORDERING CODE**



## Typical Operating Characteristics ($T_A$=25°C)

*See LED data sheet for additional information*

### GENERAL PURPOSE

*See page 6-55 and 6-56 for Reference Only LED Drive Circuit Examples. See page 6-58 for Pin Out*

| Part Number | Color | Peak Wavelength nm | Iv mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle 2Θ½ | LED Data sheet | Page # |
|---|---|---|---|---|---|---|---|---|
| 550-0205-003 | Green | 565 | 12.3 | 2.1 | 20 | 60° | 5ND-9674 | 6-51 |
| 550-0305-003 | Yellow | 585 | 12.3 | 2.1 | 20 | 60° | 5ND-9673 | 6-51 |
| 550-0405-003 | Red | 635 | 12.3 | 2 | 20 | 60° | 5ND-9672 | 6-51 |

### INTEGRAL RESISTOR

| Part Number | Color | Peak Wavelength nm | Iv mcd | Test Voltage | Forward Current (mA) | Viewing Angle 2Θ½ | LED Data sheet | Page # |
|---|---|---|---|---|---|---|---|---|
| 550-0505-003 | Red | 655 | 2 | 5 | 13 | 60° | 5RD-9422 | 6-52 |
| 550-0705-003 | Green | 565 | 8 | 5 | 12 | 60° | 5RD-9423 | 6-52 |
| 550-0805-003 | Yellow | 583 | 8 | 5 | 10 | 60° | 521-9284 | 6-41 |

### LOW CURRENT

| Part Number | Color | Peak Wavelength nm | Iv mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle 2Θ½ | LED Data sheet | Page # |
|---|---|---|---|---|---|---|---|---|
| 550-1105-003 | Red | 635 | 2 | 1.8 | 2 | 50° | 521-9320 | 6-42 |
| 550-1205-003 | Yellow | 583 | 1.8 | 1.9 | 2 | 50° | 521-9321 | 6-42 |
| 550-1305-003 | Green | 565 | 1.8 | 1.8 | 2 | 50° | 521-9327 | 6-42 |

### HIGH EFFICIENCY

| Part Number | Color | Peak Wavelength nm | Iv mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle 2Θ½ | LED Data sheet | Page # |
|---|---|---|---|---|---|---|---|---|
| 550-2205-003 | Green | 563 | 10 | 2.1 | 10 | 65° | 5HD-9270-5 | 6-49 |
| 550-2305-003 | Yellow | 585 | 6.3 | 2.1 | 10 | 50° | 5HD-9271-5 | 6-49 |
| 550-2405-003 | Red | 650 | 7 | 2.2 | 10 | 50° | 5HD-9269 | 6-49 |
| 550-2505-003 | Orange | 600 | 7 | 1.9 | 10 | 60° | 521-9704 | 6-43 |

### BI-COLOR

| Part Number | Color | Peak Wavelength nm | Iv mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle 2Θ½ | LED Data sheet | Page # |
|---|---|---|---|---|---|---|---|---|
| 550-3005-003 | Red/Green | 660/565 | 90/40 | 1.8/2.1 | 20 | 60° | 521-9651 | 6-46 |
| 550-3105-003 | Yellow/Green | 585/565 | 8.7/8.7 | 2.1/2.1 | 20 | 50° | 521-9724 | 6-46 |



### SUPER BRIGHT, DIFFUSED

| Part Number | Color | Peak Wavelength nm | Iv mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle 2Θ½ | LED Data sheet | Page # |
|---|---|---|---|---|---|---|---|---|
| 550-5105-003 | Red | 650 | 34 | 2.1 | 20 | 50° | 5SD-9441 | 6-53 |
| 550-5205-003 | Green | 563 | 34 | 2.2 | 20 | 50° | 5SD-9456 | 6-53 |
| 550-5305-003 | Yellow | 585 | 34 | 2.2 | 20 | 50° | 5SD-9455 | 6-53 |

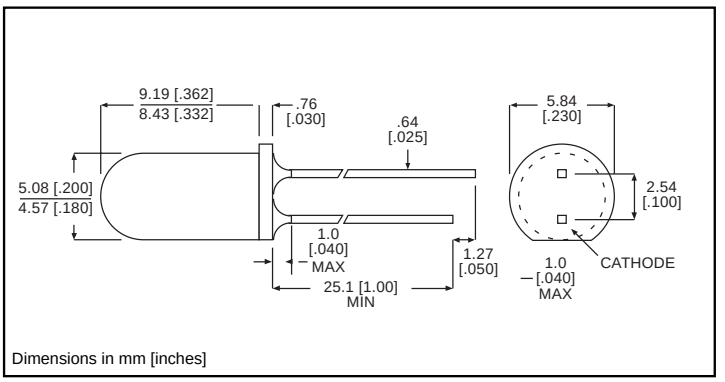
### SUPER BRIGHT, WATER CLEAR (NON-TINTED, NON-DIFFUSED)

| Part Number | Color | Peak Wavelength nm | Iv mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle 2Θ½ | LED Data sheet | Page # |
|---|---|---|---|---|---|---|---|---|
| 550-5505-003 | Red | 635 | 125 | 2.2 | 20 | 24° | 521-9464 | 6-47 |
| 550-5605-003 | Green | 565 | 120 | 2.3 | 20 | 24° | 521-9465 | 6-47 |
| 550-5705-003 | Yellow | 583 | 140 | 2.2 | 20 | 24° | 521-9466 | 6-47 |

# 5mm Discrete LED
# Integral Resistor, 5 Volts
# Diffused

Dialight

## 521-9183, -9284



Dimensions in mm [inches]

| 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 **-9183** | Yellow **-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 **-9183** | Yellow **-9284** |
|---|---|---|---|
| Luminous Intensity (mcd) | Min. | 2 | 2 |
| $V_F$ = 5V | Typical | 8 | 8 |
| Peak Wavelength (nm) | Typical | 635 | 583 |
| λ Peak | | | |
| Viewing Angle (2Θ ½) | Typical | 60° | 60° |
| Forward Current (I) | Typical | 10 | 10 |
| $V_F$ = 5V | Max | 15 | 15 |
| Reverse Voltage (V), $I_R$=100µA | Min. | 5 | 5 |

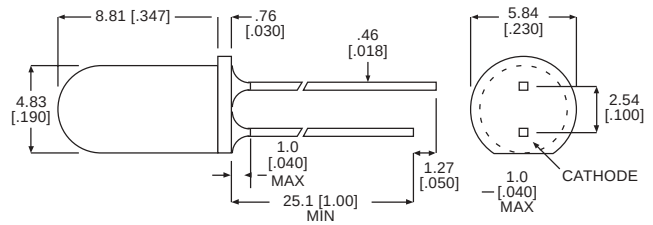
Θ ½ *is the off axis angle at which the luminous intensity is half the axial luminous intensity*

6

# 5mm Discrete LED
# Low Current, 2mA
# Diffused

**Dialight**

# 521-9320, -9321, -9327




Dimensions in mm [inches]

| 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 Dssipation (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 | | |

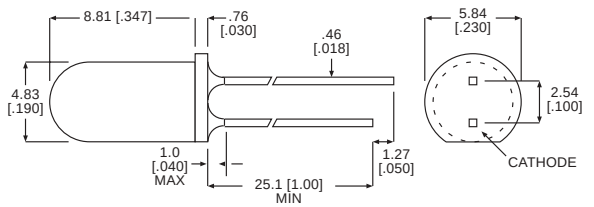
*Solder Adherence per MIL-STD-202E, Method 208C*

| **OPERATING CHARACTERISTICS** (TA=25°C) | | Red **-9320** | Yellow **-9321** | Green **-9327** |
|---|---|---|---|---|
| Luminous Intensity (mcd) | Min. | 1.2 | 1.2 | 1.2 |
| $I_F$=2mA | Typical | 2 | 1.8 | 1.8 |
| Peak Wavelength (nm) λ Peak | Typical | 635 | 583 | 565 |
| Viewing Angle ($2\Theta_{1/2}$) | Typical | 50° | 50° | 50° |
| Forward Voltage (V) | Typical | 1.8 | 1.9 | 1.8 |
| $I_F$=2mA | Max. | 2.2 | 2.7 | 2.2 |
| Reverse Voltage (V), $I_R$=50µA | Min. | 5 | 5 | 5 |

$\Theta_{1/2}$ *is the off axis angle at which the luminous intensity is half the axial luminous intensity*

# 5mm Discrete LED
# High Efficiency
# Diffused

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




Dimensions in mm [inches]

| 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°C) | Red **-9246** | Yellow **-9248** | Green **-9250** | Orange **-9704** |
|---|---|---|---|---|
| Power Dissipation (mW) | 135 | 85 | 135 | 135 |
| Derating (mW/°C) *From 25°C 1. (mA/°C) From 50°C* | 1.8 | 1.6 | 1.8 | .5[1] |
| Forward Current (mA) | 25 | 20 | 25 | 30 |
| Peak Current (mA) *Pulse width = 10µs* | 500 | 500 | 500 | 500 |
| Operating Temperature (°C) | -55/+100 | -55/+100 | -20/+100 | -55/+100 |
| 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) | | Red **-9246** | Yellow **-9248** | Green **-9250** | Orange **-9704** |
|---|---|---|---|---|---|
| Luminous Intensity (mcd) | Min. | 4 | 4 | 4.2 | 4 |
| $I_F$=10mA | Typical | 7 | 8 | 5.2 | 7 |
| Peak Wavelength (nm) λ Peak | Typical | 635 | 583 | 565 | 600 |
| Viewing Angle (2Θ ½) | Typical | 60° | 60° | 60° | 60° |
| Forward Voltage (V) | Typical | 2.2 | 2.2 | 2.3 | 1.9 |
| $I_F$=10mA | Max. | 3 | 3 | 3 | 2.4 |
| Reverse Voltage (V), $I_R$=100µA | Min. | 5 | 5 | 5 | 5 |

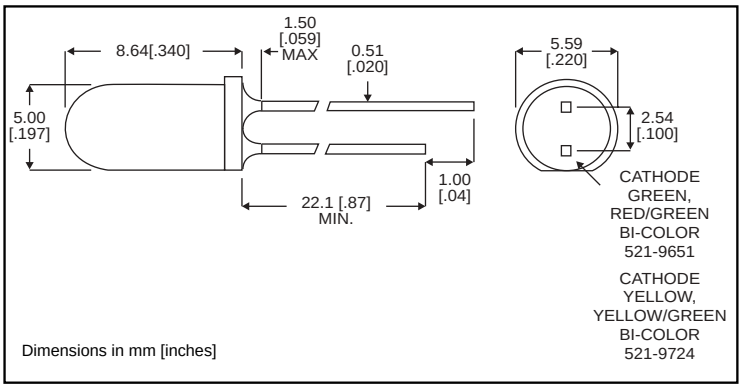
Θ ½ *is the off axis angle at which the luminous intensity is half the axial luminous intensity*

6

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

**Dialight**

# 521-9651, -9724




Dimensions in mm [inches]

| 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°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) *Pulse width = 100 µs* | 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*

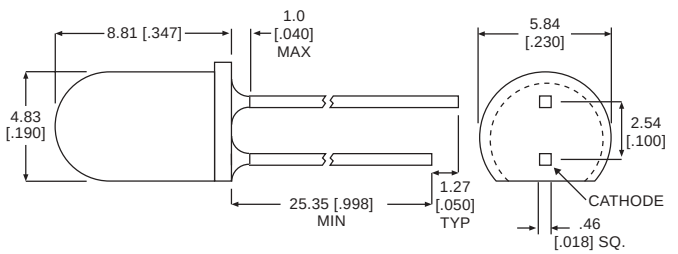
| **OPERATING CHARACTERISTICS** ($T_A$=25°C) | | Red/Green **-9651** | Yellow/Green **-9724** |
|---|---|---|---|
| Luminous Intensity (mcd) | Min. | 29/12.6 | 2.5/2.5 |
| $I_F$=20mA | Typical | 90/40 | 8.7/8.7 |
| Peak Wavelength (nm) λ Peak | Typical | 660/565 | 585/565 |
| Viewing Angle ($2\Theta_{1/2}$) | Typical | 60° | 50° |
| Forward Voltage (V) | Typical | 1.8/2.1 | 2.1/2.1 |
| $I_F$=20mA | Max. | 2.4/2.8 | 2.8/2.8 |

$\Theta_{1/2}$ *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




Dimensions in mm [inches]

| 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°C) | Red **-9464** | Green **-9465** | Yellow **-9466** |
|---|---|---|---|
| Power Dissipation (mW) | 135 | 135 | 85 |
| Derating (mW/°C) *From 25°C 1. From 50 °C* | 1.8 | 1.8 | 1.6[1] |
| Forward Current (mA) | 30 | 30 | 20 |
| Peak Current (mA) *Pulse width = 10 µs* | 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°C) | | Red **-9464** | Green **-9465** | Yellow **-9466** |
|---|---|---|---|---|
| Luminous Intensity (mcd) | Min. | 80 | 80 | 80 |
| $I_F$=20mA | Typical | 125 | 120 | 140 |
| Peak Wavelength (nm) λ Peak | Typical | 635 | 565 | 583 |
| Viewing Angle (2Θ ½) | Typical | 24° | 24° | 24° |
| Forward Voltage (V) | Typical | 2.2 | 2.3 | 2.2 |
| $I_F$=20mA | Max. | 3 | 3 | 3 |
| Reverse Voltage (V), $I_R$=100µA | Min. | 5 | 5 | 5 |

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

6

# 5mm
# High Efficiency
# Diffused

**Dialight**

## 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) | 60 | 140 | 75 | 200 | 60 |
| Derating (mW/°C) *From 50°C 1. From 40°C* | .66[1] | | .66[1] | | .66[1] |
| Forward Current (mA) | 20 | 40 | 25 | 60 | 20 |
| Derating (mA/°C) *From 25°C* | | .6 | | .8 | |
| 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*

| **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 |
| $I_F$=10mA | Typical | 7 | 32 | 10 | 10 | 6.3 |
| Peak Wavelength (nm) λ Peak | Typical | 650 | 565 | 563 | 590 | 585 |
| Viewing Angle (2Θ ½) | Typical | 50° | 50° | 65° | 70° | 50° |
| Forward Voltage (V) | Typical | 2.2 | 2* | 2.1 | 2.4* | 2.1 |
| $I_F$=10mA, *$I_F$=20mA | Max. | 2.5 | 2.6* | 3 | 3* | 3 |
| Reverse Voltage (V), $I_R$=100µA *$I_R$=10µA | Min. | 5 | 5* | 3* | 5* | 3 |

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

6

# 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°C) | Red **-9672** | Yellow **-9673** | Green **-9674** |
|---|---|---|---|
| Power Dissipation (mW) | 80 | 60 | 100 |
| Forward Current (mA) | 40 | 20 | 30 |
| Derating (mA/°C) *From 25°C* | .5 | .25 | .4 |
| Peak Current (mA) *Pulse width = 10 µs* | 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°C) | | Red **-9672** | Yellow **-9673** | Green **-9674** |
|---|---|---|---|---|
| Luminous Intensity (mcd) | Min. | 3.5 | 3.5 | 3.5 |
| $I_F$=20mA | Typical | 12.3 | 12.3 | 12.3 |
| Peak Wavelength (nm) | Typical | 635 | 585 | 565 |
| λ Peak | | | | |
| Viewing Angle ($2\Theta_{1/2}$) | Typical | 60° | 60° | 60° |
| Forward Voltage (V) | Typical | 2 | 2.1 | 2.1 |
| $I_F$=20mA | Max. | 2.8 | 2.8 | 2.8 |
| Reverse Voltage (V), $I_R$=100µA | Min. | 5 | 5 | 5 |

$\Theta_{1/2}$ *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 |
| $V_F$=5V, *$V_F$=12V | Typical | 4* | 4* | 2 | 8 |
| Peak Wavelength (nm) λ Peak | Typical | 565 | 583 | 655 | 565 |
| Viewing Angle (2Θ ½) | 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 |

*Θ ½ 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°C) | Red **-9441** | Yellow **-9455** | Green **-9456** |
|---|---|---|---|
| Power Dissipation (mW) | 75 | 75 | 75 |
| Forward Current (mA) | 25 | 25 | 25 |
| Derating (mA/°C) *From 50°C* | .66* | .5 | .5 |
| *(mW/°C) *From 40°C* | | | |
| Peak Current (mA) *Pulse width = 1 ms* | 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°C) | | Red **-9441** | Yellow **-9455** | Green **-9456** |
|---|---|---|---|---|
| Luminous Intensity (mcd) | Min. | 17 | 17 | 17 |
| $I_F$=20mA | Typical | 34 | 34 | 34 |
| Peak Wavelength (nm) λ Peak | Typical | 650 | 585 | 563 |
| Viewing Angle ($2\Theta_{1/2}$) | Typical | 50° | 50° | 50° |
| Forward Voltage (V) | Typical | 2.1 | 2.2 | 2.2 |
| $I_F$=20mA | Max. | 2.55 | 3 | 3 |
| Reverse Voltage (V), $I_R$=10µA | Min. | 3 | 3 | 3 |

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

6