

Typical Operating Characteristics (T_A=25°C)

See LED data sheet for additional information

HIGH EFFICIENCY

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	I _v mcd	V _F Volts	Test Current (mA)	Viewing Angle 2θ°	LED Data sheet	Page #
552-0211	Red	650	7	2.2	10	50°	5HD-9269	6-49
552-0222	Green	563	10	2.1	10	65°	5HD-9270-5	6-49
552-0233	Yellow	585	6.3	2.1	10	50°	5HD-9271-5	6-49
552-0277	Orange	600	7	1.9	10	60°	521-9704	6-43

INTEGRAL RESISTOR, 5 VOLTS

Part Number	Color	Peak Wavelength nm	I _v mcd	Test Voltage	Forward Current (mA)	Viewing Angle 2θ°	LED Data sheet	Page #
552-0311	Red	655	2	5	13	60°	5RD-9422	6-52
552-0322	Green	565	8	5	12	60°	5RD-9423	6-52
552-0333	Yellow	583	8	5	10	60°	521-9284	6-41

INTEGRAL RESISTOR, 12 VOLTS

Part Number	Color	Peak Wavelength nm	I _v mcd	Test Voltage	Forward Current (mA)	Viewing Angle 2θ°	LED Data sheet	Page #
552-0422	Green	565	4	12	13	60°	5RD-9378	6-52
552-0433	Yellow	583	4	12	13	60°	5RD-9379	6-52

BI-COLOR

Part Number	Color	Peak Wavelength nm	I _v mcd	V _F Volts	Test Current (mA)	Viewing Angle 2θ°	LED Data sheet	Page #
552-0711	Red/Green	660/565	90/40	1.8/2.1	20	60°	521-9651	6-46
552-0744	Yellow/Green	585/565	8.7/8.7	2.1/2.1	20	50°	521-9724	6-46

SUPER BRIGHT

Part Number	Color	Peak Wavelength nm	I _v mcd	V _F Volts	Test Current (mA)	Viewing Angle 2θ°	LED Data sheet	Page #
552-0811	Red	650	34	2.1	20	50°	5SD-9441	6-53
552-0822	Green	563	34	2.2	20	50°	5SD-9456	6-53
552-0833	Yellow	585	34	2.2	20	50°	5SD-9455	6-53

LOW CURRENT

Part Number	Color	Peak Wavelength nm	I _v mcd	V _F Volts	Test Current (mA)	Viewing Angle 2θ°	LED Data sheet	Page #
552-0911	Red	635	2	1.8	2	50°	521-9320	6-42
552-0922	Green	565	1.8	1.8	2	50°	521-9327	6-42
552-0933	Yellow	583	1.8	1.9	2	50°	521-9321	6-42

查看521-9183, -9284供应信息

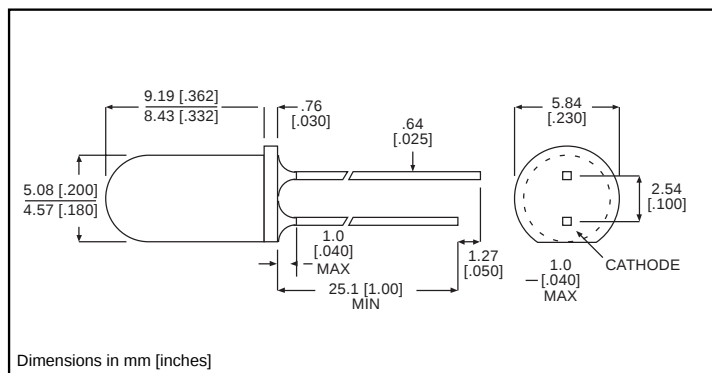
5mm Discrete LED

Integral Resistor, 5 Volts

Diffused

Dialight

521-9183, -9284



PART NO.

521-9183

521-9284

LED COLOR

Red

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 ¹)	Typical	60°	60°
Forward Current (I)	Typical	10	10
V _F = 5V	Max	15	15
Reverse Voltage (V), I _R =100μA	Min.	5	5

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

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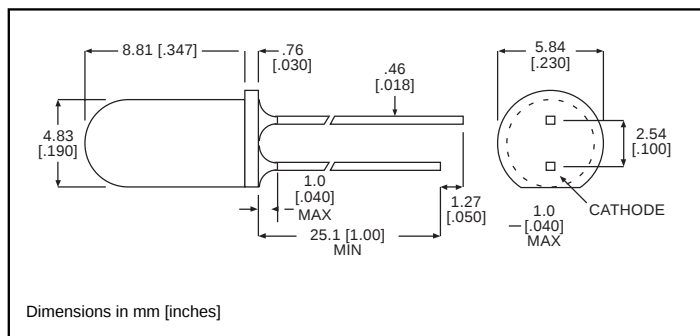
5mm Discrete LED

Low Current, 2mA

Diffused

Dialight

521-9320, -9321, -9327



PART NO.

521-9320

521-9321

521-9327

COLOR

Red

Yellow

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 (mW/°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)

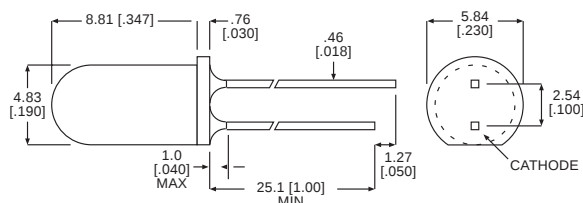
		Red -9320	Yellow -9321	Green -9327
Luminous Intensity (mcd)	Min.	1.2	1.2	1.2
	Typical	2	1.8	1.8
Peak Wavelength (nm) λ Peak	Typical	635	583	565
Viewing Angle (2Θ ½)	Typical	50°	50°	50°
Forward Voltage (V)	Typical	1.8	1.9	1.8
	Max.	2.2	2.7	2.2
Reverse Voltage (V), I _R =50μA	Min.	5	5	5

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

High Efficiency
Diffused

Dialight

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 ($T_A=25^\circ\text{C}$)	Red -9246	Yellow -9248	Green -9250	Orange -9704
Power Dissipation (mW)	135	85	135	135
Derating (mW/ $^\circ\text{C}$) From 25°C 1. (mA/ $^\circ\text{C}$) From 50°C	1.8	1.6	1.8	.5 ¹
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)	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)	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 ¹ is the off axis angle at which the luminous intensity is half the axial luminous intensity

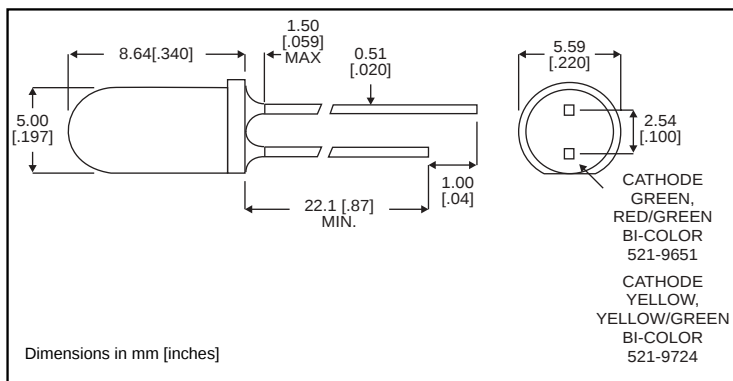
5mm Discrete LED

Bi-Color

Non-Tinted, Diffused

Dialight

521-9651, -9724



PART NO.

521-9651

521-9724

LED COLOR

Red/Green

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

		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)	Typical	660/565	585/565
λ_{Peak}			
Viewing Angle ($2\theta_{1/2}$)	Typical	60°	50°
Forward Voltage (V)	Typical	1.8/2.1	2.1/2.1
	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

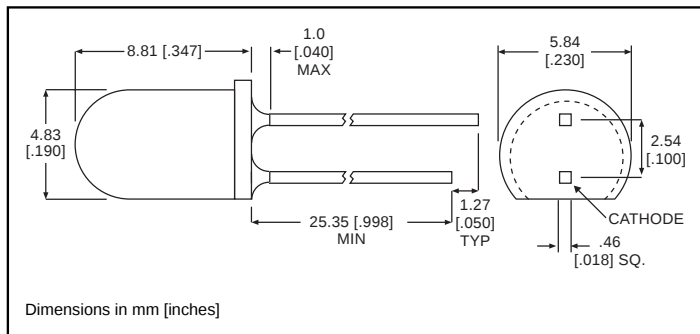
5mm Discrete LED

Super Bright, Water Clear

Non-Tinted, Non-Diffused

Dialight

521-9464,-9465,-9466



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)	Typical	635	565	583
λ Peak				
Viewing Angle (2Θ ¹)	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

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

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) 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

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
	I _F =10mA, *I _F =20mA	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
[查询352-0211"供应商](#)

General Purpose Diffused

Dialight

5ND-xxxx

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

TYPE

*5ND-9672
*5ND-9673
*5ND-9674

COLOR

Red
Yellow
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 (2θ ^{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

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

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5mm 查询"552-0211"供应商

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)	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

Super Bright LED Diffused

Dialight

5SD-xxxx

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

TYPE
*5SD-9441
*5SD-9455
*5SD-9456

COLOR
Red
Yellow
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 *(mW/°C) From 40°C	.66*	.5	.5
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)	Typical	650	585	563
λ Peak				
Viewing Angle (2Θ ^{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

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