



2mm  
General Purpose  
Diffused

**Dialight**

2ND-xxxx

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

<u>TYPE</u>	<u>COLOR</u>
2ND-9412*	Red
2ND-9414*	Green
2ND-9416*	Yellow

<b>ABSOLUTE MAXIMUM RATINGS</b> ( $T_A=25^\circ\text{C}$ )	Red <b>-9412</b>	Green <b>-9414</b>	Yellow <b>-9416</b>
Power Dissipation (mW)	80	80	80
Derating (mW/ $^\circ\text{C}$ ) From 25 $^\circ\text{C}$	1.1	1.1	1.1
Forward Current (mA)	40	25	25
Peak Current (mA) <i>Pulse width = 1 <math>\mu\text{s}</math></i>	250	250	250
Operating Temperature ( $^\circ\text{C}$ )	-55/+100	-55/+100	-55/+100
Storage Temperature ( $^\circ\text{C}$ )	-55/+100	-55/+100	-55/+100
Soldering Temperature	260 $^\circ\text{C}$ , 5 seconds, 1.6 mm from case		

<b>OPERATING CHARACTERISTICS</b> ( $T_A=25^\circ\text{C}$ )		Red <b>-9412</b>	Green <b>-9414</b>	Yellow <b>-9416</b>
Luminous Intensity (mcd) $I_F=20\text{mA}$	Min.	1	.5	.6
	Typical	1.2	1	2
Peak Wavelength (nm) $\lambda_{\text{Peak}}$	Typical	650	565	583
Viewing Angle ( $2\theta_{1/2}$ )	Typical	40 $^\circ$	40 $^\circ$	40 $^\circ$
Forward Voltage (V) $I_F=20\text{mA}$	Typical	1.6	2.4	2.2
	Max.	2	3	3
Reverse Voltage (V), $I_R=10\mu\text{A}$	Min.	3	3	3

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

2mm  
Integral Resistor, 5 Volts  
Diffused

**Dialight**

2RD-9613 thru 2RD-9618

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TYPE	COLOR
2RD-9613*	Red
2RD-9614*	Red
2RD-9615*	Green
2RD-9616*	Yellow
2RD-9618*	Red

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<b>ABSOLUTE MAXIMUM RATINGS</b> ( $T_A=25^\circ\text{C}$ )	Red <b>-9613</b>	Red <b>-9614</b>	Green <b>-9615</b>	Yellow <b>-9616</b>	Red <b>-9618</b>
Forward Voltage (V)	6	6	6	6	6
Operating Temperature ( $^\circ\text{C}$ )	-55/+100	-55/+100	-55/+100	-55/+100	-55/+100
Storage Temperature ( $^\circ\text{C}$ )	-55/+100	-55/+100	-55/+100	-55/+100	-55/+100
Soldering Temperature	260 $^\circ\text{C}$ , 5 seconds, 1.6 mm from case				

<b>OPERATING CHARACTERISTICS</b> ( $T_A=25^\circ\text{C}$ )	-	Red <b>9613</b>	Red <b>-9614</b>	Green <b>-9615</b>	Yellow <b>-9616</b>	Red <b>-9618</b>
Luminous Intensity (mcd)	Min.	.4	.8	.8	1.3	.3
	Typical	.9	1.9	2.5	2.1	.6
Peak Wavelength (nm)	Typical	650	650	565	583	650
$\lambda$ Peak						
Viewing Angle ( $2\theta_{1/2}$ )	Typical	40 $^\circ$	40 $^\circ$	40 $^\circ$	40 $^\circ$	40 $^\circ$
Forward Current (mA)	Typical	3	6	4.7	4.7	1
	Max.	4	8	6.7	6.7	2.6
Reverse Voltage (V), $I_R=100\mu\text{A}$	Min.	6	6	6	6	6