



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)	Red -9412	Green -9414	Yellow -9416
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 μs</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		

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)		Red -9412	Green -9414	Yellow -9416
Luminous Intensity (mcd) $I_F=20\text{mA}$	Min.	1	.5	.6
	Typical	1.2	1	2
Peak Wavelength (nm) λ_{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

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

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

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ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)	Red -9613	Red -9614	Green -9615	Yellow -9616	Red -9618
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				

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)	-	Red 9613	Red -9614	Green -9615	Yellow -9616	Red -9618
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
λ 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