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!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

ELECTRO-OPTICAL CHARACTERISTICS @ Ta = 25°C

Model No.	Fig.	Color	Tint	Peak Wavelength λpk (nm)	Chip Material	Luminous Intensity Iv (mcd) Typical	@	Viewing Angle 2θ 1/2 (deg)	Forward Voltage Vf@If=20mA Typical	@	Reverse Breakdown Voltage@ (IR=100µA)
200-BR	7	RED	D	635	GaAsP/GaP	14	20mA	60	2.2/2.6	20mA	5VDC
200-BA	7	AMB	D	583	GaAsP/GaP	16	20mA	60	1.9/2.4	10mA	5VDC
200-BG	7	GRN	D	565	GaP	10	20mA	60	1.9/2.4	10mA	5VDC
200-BCR	7	RED	T	635	GaAsP/GaP	120	20mA	35	2.1/2.7	10mA	5VDC
200-BCA	7	AMB	T	583	GaAsP/GaP	100	20mA	35	1.9/2.4	10mA	5VDC
200-BCG	7	GRN	T	565	GaP	80	20mA	24	2.0/2.4	10mA	5VDC
200-RLP	7	RED	D	635	GaAsP/GaP	2.3	2mA	50	2.1/2.7	10mA	5VDC
200-ALP	7	AMB	D	583	GaAsP/GaP	2.1	2mA	50	1.8/2.0	2mA	5VDC
200-GLP	7	GRN	D	565	GaP	2.3	2mA	50	1.9/2.5	2mA	5VDC
200-LRG	8	RED/GRN	D	660/565	GaAlAs/GaP	90/40	20mA	60	1.8/2.2	2mA	5VDC
200-RAG	9	RED/GRN	D	630/565	GaAsP/GaP/GaP	6/6	20mA	60	1.8/2.4 or 2.1/2.8	20mA	6VDC
200-GAR	10	RED/GRN	D	635/565	GaAsP/GaP/GaP	5/5	20mA	50	2.0 or 2.4/3.0	20mA	5VDC
200-BR5V	11	RED	D	635	GaAsP/GaP	8.0	5VDC	60	2.0 or 2.1/2.4	20mA	5VDC
200-BA5V	11	AMB	D	583	GaAsP/GaP	8.0	5VDC	60	5.0/7.5	10mA	5VDC
200-BG5V	11	GRN	D	565	GaP	8.0	5VDC	60	5.0/7.5	10mA	5VDC
200-BR12V	11	RED	D	635	GaAsP/GaP	8.0	12VDC	60	5.0/7.5	10mA	5VDC
200-BA12V	11	AMB	D	583	GaAsP/GaP	8.0	12VDC	60	12.0/15.0	13mA	5VDC
200-BG12V	11	GRN	D	565	GaP	8.0	12VDC	60	12.0/15.0	13mA	5VDC
200-NWR	15	RED	WC	634	AlInGaP	2800	20mA	30	12.0/15.0	13mA	5VDC
200-NWO	12	ORNG	WC	605	AlInGaP	2000	20mA	30	2.3/2.8	20mA	5VDC
200-NWA	15	AMB	WC	592	AlInGaP	2800	20mA	30	1.9/2.4	20mA	5VDC
200-NWG	13	GR	WC	520	InGaN	2400	20mA	45	2.3/2.8	20mA	5VDC[2]
200-NWB	13	BLUE	WC	465	InGaN	700	20mA	45	3.5/4.0	20mA	5VDC[2]
200-NWW	13	WHT	WC		InGaN	1560	20mA	50	3.6/4.0	20mA	5VDC[2]
200-NKR	15	RED	WC	634	AlInGaP	3600	20mA	15	3.6/4.0	20mA	5VDC
200-NKO	12	ORNG	WC	605	AlInGaP	8000	20mA	15	2.3/2.8	20mA	5VDC
200-NKA	15	AMB	WC	592	AlInGaP	3600	20mA	15	1.9/2.4	20mA	5VDC
200-NKG	13	GRN	WC	520	InGaN	10000	20mA	15	2.3/2.8	20mA	5VDC[2]
200-NKB	13	BLUE	WC	465	InGaN	3000	20mA	15	3.5/4.0	20mA	5VDC[2]
200-NKW	13	WHT	WC		InGaN	5600	20mA	20	3.6/4.0	20mA	5VDC[2]
DF200-NFR	14	RED	WC	634	AlInGaP	780	20mA	75	3.6/4.0	20mA	5VDC
DF200-NFA	14	AMB	WC	592	AlInGaP	600	20mA	75	2.2/2.8	20mA	5VDC
DF200-NFG	14	GRN	WC	520	InGaN	780	20mA	75	2.3/2.8	20mA	5VDC
DF200-NFB	14	BLUE	WC	465	InGaN	168	20mA	75	3.3/4.0	20mA	5VDC
DF200-NFW	14	WHT	WC		InGaN	280	20mA	75	3.4/4.0	20mA	5VDC

[1] @ TA = 50°C
[2] @ (IR=50µA)
[3] D=Diffused, T=Tinted, WC=Water Clear.

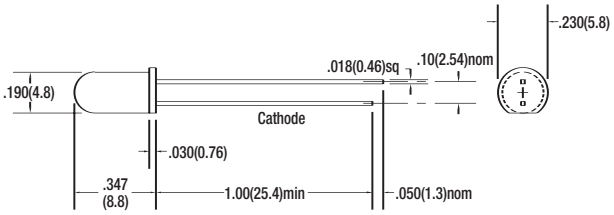

Figure 7

ABSOLUTE MAXIMUM RATINGS @ Ta = 25°C

Model No.	Power Dissipation (mW)	Derating Factor (mA/°C)	Maximum Continuous Current (mA)	Peak Forward Current@100KHz 5% Duty Cycle (mA)	Operating Temperature (°C)	Storage Temperature (°C)
200-BR	135	1.8	30	90	-55<+100	-55<+100
200-BA	85	1.6	20	60	-55<+100	-55<+100
200-BG	135	1.8	30	90	-20<+100	-55<+100
200-BCR	135	1.8	30	90	-55<+100	-55<+100
200-BCA	85	1.6	20	60	-55<+100	-55<+100
200-BCG	135	1.8	30	90	-20<+100	-55<+100
200-RLP	24	.32	7	7	-55<+100	-55<+100
200-ALP	36	.48	7	7	-55<+100	-55<+100
200-GLP	24	.32	7	7	-20<+100	-55<+100
200-LRG	100	1.6	40/30	200/120	-55<+100	-55<+100
200-RAG	100	1.5	30	90	-40<+100	-55<+100
200-GAR	100	1.5	30	160	-40<+85	-40<+100
200-BR5V	-	.071V/°C [1]	15	-	-40<+85	-55<+100
200-BA5V	-	.071V/°C [1]	15	-	-40<+85	-55<+100
200-BG5V	-	.071V/°C [1]	15	-	-20<+85	-55<+100
200-BR12V	-	.086V/°C [1]	20	-	-40<+85	-55<+100
200-BA12V	-	.086V/°C [1]	20	-	-40<+85	-55<+100
200-BG12V	-	.086V/°C [1]	20	-	-20<+85	-55<+100
200-NWR	80	1.3	30	160	-40<+100	-40<+100
200-NWO	120	1.3	50	100	-40<+100	-40<+120
200-NWA	80	1.3	30	160	-40<+100	-40<+100
200-NWG	120	2.1	30	100	-30<+85	-40<+100
200-NWB	120	2.1	30	100	-30<+85	-40<+100
200-NWW	120	2.1	30	100	-30<+85	-40<+100
200-NKR	80	1.3	30	160	-40<+100	-40<+100
200-NKO	120	1.3	50	100	-40<+100	-40<+120
200-NKA	80	2.1	30	160	-40<+100	-40<+100
200-NKG	120	2.1	30	100	-30<+85	-40<+100
200-NKB	120	2.1	30	100	-30<+85	-40<+100
200-NKW	120	1.3	30	100	-30<+85	-40<+100
DF200-NFR	80	1.3	30	160	-40<+100	-40<+100
DF200-NFA	80	1.3	30	160	-40<+100	-40<+100
DF200-NFG	120	1.3	30	100	-40<+100	-40<+100
DF200-NFB	120	1.3	30	100	-40<+100	-40<+100
DF200-NFW	120	1.3	30	100	-40<+100	-40<+100

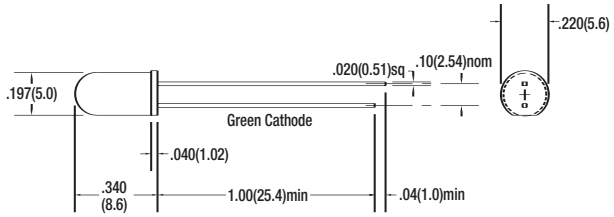

Figure 8

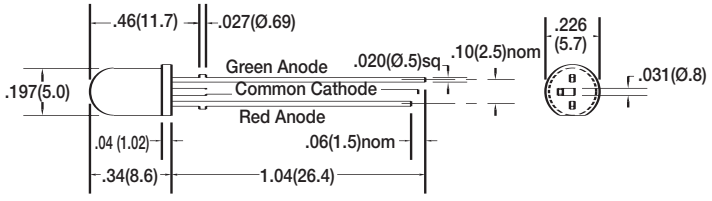

Figure 9

445 S. Douglas Street, El Segundo, CA 90245-4630 • (800) 421-6815 • (310) 640-0442 • FAX (310) 640-7639
www.datadisplay.com

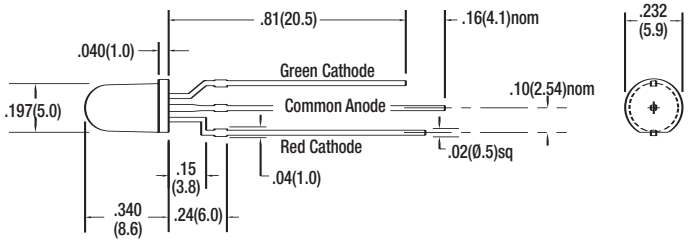

Figure 10

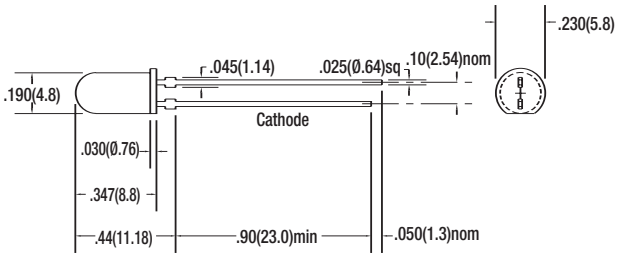

Figure 11

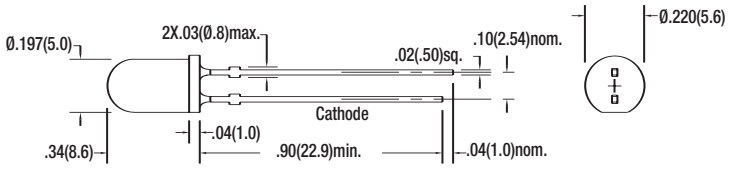

Figure 12

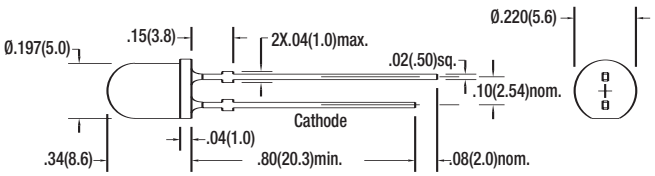

Figure 13

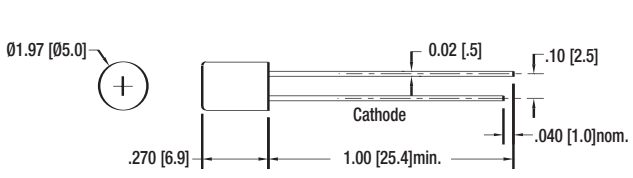

Figure 14

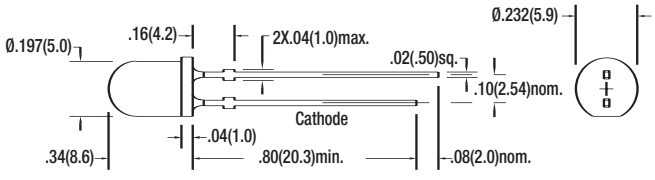

Figure 15