Surface Mount LEDs

Explanation of Part Number:

H C L - 1 9 0 3 - 4

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1.Surface mount products kinds:

HCL: Chip SMD LEDs.

2.Shape distinguish:

150: 1206, flat top, 3.2(L) X 1.6(W) X 1.1(H) mm.
155: 1210, flat top dual color, 3.2(L) X 2.7(W) X 1.1(H) mm.
170: 0805, flat top, 2.0(L) X 1.25(W) X 1.1(H) mm.
190: 0603, flat top, 1.6(L) X 0.8(W) X 0.8(H) mm.
190: 0603, flat top, 1.6(L) X 0.8(W) X 0.38(H) mm.

3.Dice kinds:

according to chip characteristic distinguish.
see below table.

4.Special lens appearance:

1:colored diffusion. 2:colored clear.
3 :white diffusion. 4:water clear

Type	Material	Absolute Maximum Rating				Electro-Optical Characteristics								
						wavelength				forward voltage			reverse current	
		P_D	I_F	I_{FM}	V_R	λp	λd	$\Delta\lambda$	I_F	typ	Max	I_F	Max	V_R
2	GaP/GaP	90	20	50	5	700	658	100	20	2.20	2.80	20	10	5
3 ,DG,CG	GaP/GaP	84	25	50	5	570	567	30	20	2.15	2.80	20	10	5
3 BG	AlInGaP/GaAs	100	25	50	5	575	572	20	20	2.20	2.40	20	10	5
3 BA	GaInN/GaN	120	30	100	5	502	505	30	20	3.20	3.60	20	60	4
3 AGC	GaInN/GaN	120	30	100	5	523	525	45	20	3.20	3.60	20	60	4
4 AY,FY	AlInGaP/GaAs	100	25	50	5	592	590	25	20	2.00	2.40	20	10	5
4 SY	AlInGaP/GaP	100	30	100	5	592	590	25	20	2.25	2.60	20	10	5
4 WY, WYA,HY	AlInGaP/GaP	100	30	100	5	592	590	25	20	2.10	2.50	20	10	5
5 AO,FO	AlInGaP/GaAs	100	25	50	5	620	615	20	20	2.00	2.60	20	10	5
5 AOR	AlInGaP/GaAs	100	25	50	5	635	625	25	20	2.00	2.50	20	10	5
5 SOR	AlInGaP/GaP	100	30	100	5	638	629	25	20	2.25	2.60	20	10	5
6 DR,CR	GaAlAs/GaAs	110	30	50	5	660	643	30	20	1.80	2.40	20	10	5
6BR	AlInGaP/GaAs	100	25	50	5	655	638	25	20	2.10	2.60	20	10	5
6 AR,ARA	GaAlAs/GaAlAs	110	25	50	5	660	645	20	20	1.86	2.50	20	10	5
6 WOR, WORA HOR	AlInGaP/GaP	100	25	50	5	635	625	20	20	2.10	2.40	20	10	5
7 AA,FA	AlInGaP/GaAs	100	25	50	5	607	605	20	20	2.00	2.40	20	10	5
7 HA	AlInGaP/GaP	100	25	50	5	607	605	20	20	2.10	2.40	20	10	5
8 ABD	GaInN/GaN	120	30	100	5	462	465	35	20	3.30	3.80	20	60	4
9 AWE,YWE	GaInN/GaN	120	30	100	5	---	---	---	---	3.30	3.80	20	60	4
unit		**mW**	**mA**	**mA**	**V**	**nm**	**nm**	**nm**	**mA**	**V**	**V**	**mA**	**uA**	**V**

I_{FM} condition: 1/10 duty cycle, pulse width =0.1ms.