

Surface Mount LEDs

Explanation of Part Number:

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1.Surface mount products kinds:

HCL: Chip SMD LEDs.

2.Shape distinguish:

- 140: 1208, with reflector flat top, 3.0(L) X 2.0(W) X 1.0(H) mm.
- 150: 1206, flat top, 3.2(L) X 1.6(W) X 1.1(H) mm.
- 151: 1206, with lens, 3.0(L) X 1.5(W) X 1.5(H) mm.
- 153: 1204, right angle, 3.2(L) X 1.0(W) X 1.5(H) mm.
- 155: 1210, flat top dual color, 3.2(L) X 2.7(W) X 1.1(H) mm.
- 156: 1210, with lens dual color, 3.0(L) X 2.5(W) X 1.5(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.
- 191: 0603, flat top, 1.6(L) X 0.8(W) X 0.38(H) mm.
- 240: 1206, flat top back light, 3.2(L) X 1.6(W) X 1.1(H) mm.
- 420: 1209, with lens, 3.2(L) X 2.4(W) X 2.6(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									
		P _D	I _F	I _{FM}	V _R	wavelength			forward voltage			reverse current			
						λ _p	λ _d	Δλ	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	
3BG	AllnGaP/GaAs	100	25	50	5	575	572	20	20	2.20	2.40	20	10	5	
3BA	GalnN/GaN	120	30	100	5	502	505	30	20	3.50	4.00	20	60	4	
3AGCA	GalnN/GaN	120	30	100	5	523	525	45	20	3.50	4.00	20	60	4	
4 AY,FY	AllnGaP/GaAs	100	25	50	5	592	590	25	20	2.00	2.40	20	10	5	
4SY	AllnGaP/GaP	100	30	100	5	592	590	25	20	2.25	2.60	20	10	5	
5 AO,FO	AllnGaP/GaAs	100	25	50	5	620	615	20	20	2.00	2.60	20	10	5	
5AOR	AllnGaP/GaAs	100	25	50	5	635	626	25	20	2.00	2.50	20	10	5	
5SOR	AllnGaP/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	AllnGaP/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	
7 AA,FA	AllnGaP/GaAs	100	25	50	5	607	605	20	20	2.00	2.40	20	10	5	
8ABCA,ABD ABE	GalnN/GaN	120	30	100	5	465	470	35	20	3.50	4.00	20	60	4	
9AWCA,AWD AWE AWF	GalnN/GaN	120	30	100	5	---	---	---	---	3.50	4.00	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.