LED Design Guide & Color Chart

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The table below represents typical LED chips, their asscoiated wavelengths, nominal forward voltage, intensity and radiant power. The guide is best suited to start your research for the appropriate color and to determine some potential colors for the operating voltage you may select. For example, white and blue are difficult to use at 3.0 Volts.

		LED Chip Code	Peak Wave length (nm)	Dominant Wave length (nm)	Color Name	Nominal Fwd Voltage (V_f@20ma)	Intensity (mcd) 5mm LEDs (For Reference)	Radiant Power mW/sr	LED Die Material
851	IR	IR851	843	N/A	Infrared	1.7	N/A	86mW@50mA	GaAlAs/GaAs
0UR		R3KF/R6	654	641	Ultra Red	1.9	1000mcd@20mA	13mW@20mA	GaAlAs/GaAlAs
00R		R3/R4/R5	640	625	HE Red	2.0	220mcd@20mA	1.8mW@20mA	GaAsP/GaP
0ER		E3K	634	624	Super E.Red	2.2	8000mcd@20mA	45mW@20mA	InGaAlP
0UO		O3KF	616	610	Super Orange	2.0	2000mcd@20mA	7mW@20mA	InGaAlP
00O		O4/O5	609	604	Orange	2.0	220mcd@20mA	0.7mW@20mA	GaAsP/GaP
0UY		Y3KF	598	593	Super Yellow	2.0	5000mcd@20mA	10mW@20mA	InGaAlP
0PY		Y3KH	592	589	Super P.Yellow	2.3	4000mcd@20mA	8mW@20mA	InGaAlP
00Y		Y3/Y4/Y5	582	584	Yellow	2.1	170mcd@20mA	0.3mW@20mA	GaAsP/GaP
0IW			3000K	N/A	Warm White	3.3	5500mcd@20mA	17mW@20mA	InGaN
XPW			6000K	N/A	Pale White	3.3	5500mcd@20mA	17mW@20mA	InGaN
0WW			8000K	N/A	Cool White	3.3	5800mcd@20mA	23mW@20mA	InGaN
0UG		G1K	575	573	Super L.Green	2.0	1800mcd@20mA	3mW@20mA	InGaAlP
00G		G3/G4/G5	563	569	HE Green	2.3	210mcd@20mA	0.03mW@20mA	GaP/GaP
UPG		PG350	563	564	Super P.Green	2.1	400mcd@20mA	0.6mW@20mA	InGaAlP
0PG		PG5	557	560	Pure Green	2.2	140mcd@20mA	0.2mW@20mA	GaP/GaP
0AG		AG10K	522	528	Aqua Green	3.4	15,000mcd@20mA	30mW@20mA	InGaN
0BG		BG7K	501	502	Blue Green	3.4	4300mcd@20mA	16mW@20mA	InGaN
0PB		PB4KB	455	460	Super Blue	3.2	3000mcd@20mA	61mW@20mA	InGaN
00B		UB500	425	447	Ultra Blue	4.0	250mcd@20mA	5mW@20mA	SiC/GaN
405	uv	UV405	402	420	Ultra Violet	3.8	39mcd@20mA	53mW@20mA	SiC/GaN

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