

Seoul offers power LED solutions for high brightness lighting

Easy-to-design second optic lens with P3 Z-Power LEDs



SSC's Z-Power P3 series are specifically designed with 130-degree viewing angle (white: 120 degrees) of Lambertian emission LEDs. The P3 Z-Power LED is SMT (reflow) solderable, and has an excellent thermal resistance. The P3 Z-Power series of high-power LED packages, which includes a package containing eight high-power red, green, blue, white, warm white, amber, cyan, and royal blue chips.

The White P3 Z-Power LED has a luminous flux of 200 lm at 1.4 A (5W), corresponding to 40 lm/W, while the luminous efficacy is 52 lm/W at 350 mA. The correlated color temperature (CCT) for white is given as 2,650-10,000 K, while the reliability (time to the reach 50% degradation of lumen output) is stated as 70,000 hours at 350mA.

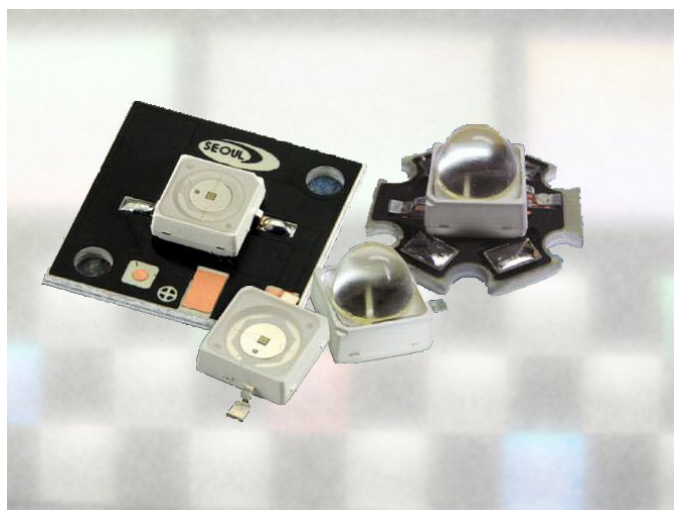
Color	Part No.	Φ_V [lm]	CCT [K]	CRI	V_F [V]	Viewing Angle
Pure White	W32180~2	52	6500	70	3.5	120
Warm White	N32180~2	35	3050	80	3.5	120

Color	Part No.	Φ_V [lm]	V_F [V]	λ_d [nm]	Viewing Angle
Royal Blue	D32180~2	255[mW]	3.5	460	130
Blue	B32180~2	11	3.5	460	130
Cyan	C32180~2	40	3.5	505	130
Green	G32180~2	48	3.5	527	130
Amber	A32180~2	38	2.5	590	128
Red	R32180~2	30	2.5	625	128

More information on the P3 Z-Power series at:

http://www.seoulsemicon.co.kr/_HOMEPAGE/home_eng/product/product.asp?topCODE=1&midCODE=19

World's first innovative full-color power LED solution



Z-Power P1 series of high-power LED includes a package containing three high-power red, green and blue chips.

The white Z-Power LED has a luminous flux of 140 lm at 1.4 A (5 W), corresponding to 28 lm/W, while the luminous efficacy is 40 lm/W at 350 mA. The Z-Power LED is available in white, red, green, blue, amber, cyan, warm white and full color. The range of

radiation patterns includes 40°, 70° and 130°, as well as a side-emitter version. The Z-Power LED is SMT(Reflow) solderable, and has an excellent thermal resistance of 16 °C/W. Several versions operating at 1 W (350 mA), 2.5 W (700 mA) and 5 W (1.4 A) are available.

Color	Part No.	Φ_V [lm]	CCT [K]	CIE [X, Y]	I_F [mA]
White	F10390 F10392	60	6000	0.32 0.32	Red: 237 Green: 370 Blue: 120

Color	Part No.	Φ_V [lm]	V_F [V]	λ_d [nm]
Red	F10390	625	2.5	350
Green	F10392	527	3.5	350
Blue		460	3.5	350

More information on the P3 Z-Power series at:

http://www.seoulsemicon.co.kr/_HOMEPAGE/home_eng/product/product.asp?topCODE=1&midCODE=3



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