

# Extra Bright LEDs

**Blue & Green with GaInN** (sensitive to static electricity)

IF=20mA Ta=25°C

Device No	Color		$\lambda_d$ Wavelength (nm)		VF Typical (V)	Brightness ( mcd)		View Angle 2 $\theta$ W	Drawing Figure	
	Emitter	Lens	Min	Max		Minimum	Typical			
$\phi 3$	HB3h-443AG	green	water clear	520	540	3.5	2000	3500	30	4-13
	HB3h-448AB	blue	water clear	465	475	3.5	530	750	30	
$\phi 5$	HB5N-433AG/P	green	water clear	520	540	3.5	4000	8350	15	4-14
	HB5N-438AB/P	blue	water clear	465	475	3.5	1540	2700	15	
$\phi 5$	HB5-433AG/P	green	water clear	520	540	3.5	2500	4950	30	4-15
	HB5-438AB/P	blue	water clear	465	475	3.5	600	1250	30	
$\phi 5$	HB5Q-433AG/P	green	water clear	520	540	3.5	1800	3300	45	4-16
	HB5Q-438AB/P	blue	water clear	465	475	3.5	320	690	45	
oval	HB5R-233AG/P	green	water clear	520	540	3.5	1600	3100	70/25	4-17
	HB5R-238AB/P	blue	water clear	465	475	3.5	320	690	70/25	
oval	HB4R-233AG/P	green	water clear	520	540	3.5	1800	3100	80/35	4-18
	HB4R-238AB/P	blue	water clear	465	475	3.5	320	690	80/35	
$\phi 5$	HB5V-433B/P	bluish green	water clear	498	508	3.5	6000	8000	6	4-19
	HB5L-433B/P	bluish green	water clear	498	508	3.5	2400	4400	30	4-20

Dimension:

Unit:mm.

