

# Normal Indicator LEDs

## 5mm Round type LEDs

IF=20mA Ta=25°C

Device No	Color		Wavelength ( nm)		VF Typical (V)	Brightness ( mcd)		View Angle 2θW	Drawing Figure	
	Emitter	Lens	λp	λd		Minimum	Typical			
φ 5	HB5-112	hi-red	colored diffused	700	658	2.20	1.0	3.0	50	4-54
	HB5-115R	hi-eff red	colored diffused	625	618	2.05	6.0	11.0		
	HB5-113	yellow green	colored diffused	570	567	2.15	6.0	12.0		
	HB5-114	yellow	colored diffused	589	585	2.10	6.0	10.0		
	HB5-115	orange	colored diffused	625	618	2.05	6.0	11.0		
φ 5	HB5-122	hi-red	colored diffused	700	658	2.20	0.9	1.5	40	4-55
	HB5-123	yellow green	colored diffused	570	567	2.15	6.0	12.0		
	HB5-124	yellow	colored diffused	589	585	2.10	6.0	10.0		
φ 5	HB5-132	hi-red	colored diffused	700	658	2.20	2.0	6.5	30	4-56
	HB5-232		colored transparent	700	658	2.20	4.5	8.0	15	
	HB5-135R		colored diffused	625	618	2.05	40.0	60.0	30	
	HB5-235R	hi-eff red	colored transparent	625	618	2.05	75.0	120	15	
	HB5-435		water clear	625	618	2.05	75.0	120	15	
	HB5-133		colored diffused	570	567	2.15	50.0	80.0	30	
	HB5-233	yellow green	colored transparent	570	567	2.15	100	150	15	
	HB5-433		water clear	570	567	2.15	100	150	15	
	HB5-134		colored diffused	589	585	2.10	35.0	50.0	30	
	HB5-234	yellow	colored transparent	589	585	2.10	60.0	100	15	
	HB5-434		water clear	589	585	2.10	60.0	100	15	
	HB5-135	orange	colored diffused	625	618	2.05	40.0	60.0	30	
	HB5-235		colored transparent	625	618	2.05	75.0	120	20	
	HB5-137	amber	colored diffused	610	607	2.05	35.0	50.0	30	

Dimension:

Unit : mm.

