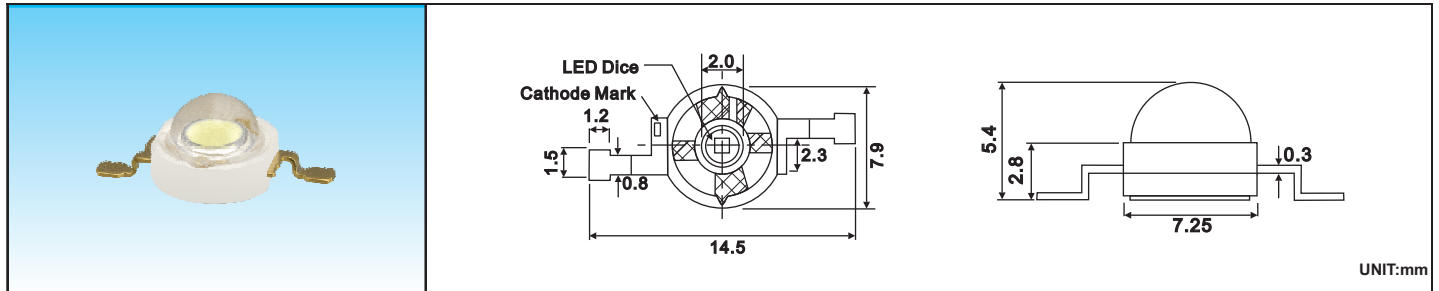


High Power 1W For Lambertian LEDs

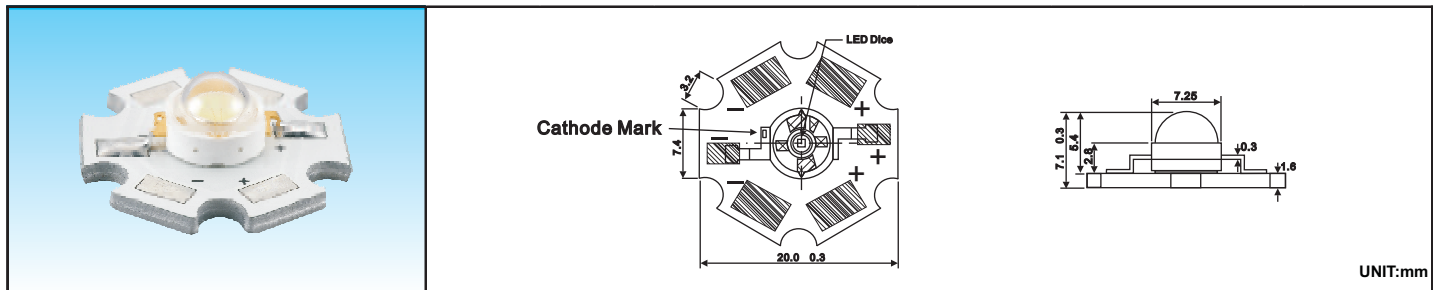


IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF Typical (V)	Brightness(lm) IV	View Angle 2θ 1/2
	Emitter	Lens	λ p	λ d			



HPB8-43KG		Green	Water clear	520	525	3.60	55.0	120
HPB8-44KY		Yellow		595	590	2.30	43.0	
HPB8-45KR		Red		635	625	2.30	45.0	
HPB8-48KBI		Blue		462	465	3.20	37.0	
HPB8-49KWG		Pure White		6000°K		3.50	105.0	
HPB8-49KWGA						3.60	125.0	
HPB8-49KWHB						3.30	150.0	
HPB8-49KYWG		Warm White		3300°K		3.50	95.0	
HPB8-49KYWGA						3.60	110.0	
HPB8-49KYWHB						3.30	125.0	



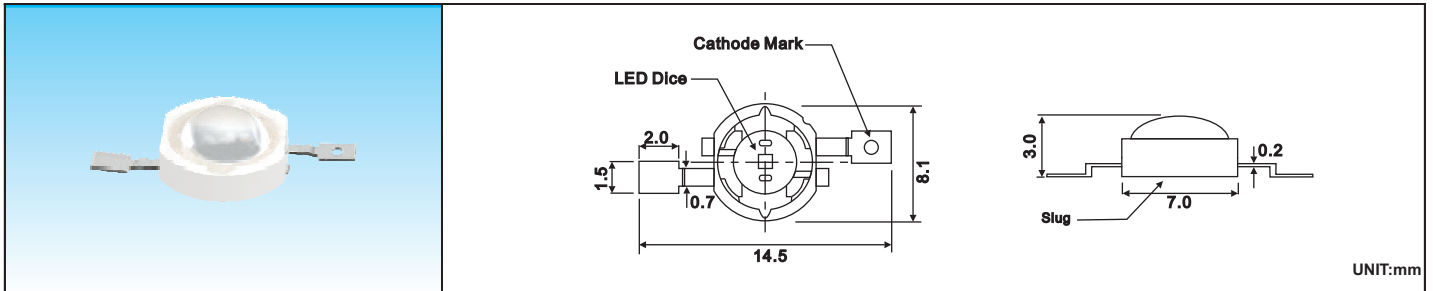
HPB8-43KG/WPCB		Green	Water clear	520	525	3.60	55.0	120
HPB8-44KY/WPCB		Yellow		595	590	2.30	43.0	
HPB8-45KR/WPCB		Red		635	625	2.30	45.0	
HPB8-48KBI/WPCB		Blue		462	465	3.20	37.0	
HPB8-49KWG/WPCB		Pure White		6000°K		3.50	105.0	
HPB8-49KWGA/WPCB						3.60	125.0	
HPB8-49KWHB/WPCB						3.30	150.0	
HPB8-49KYWG/WPCB		Warm White		3300°K		3.50	95.0	
HPB8-49KYWGA/WPCB						3.60	110.0	
HPB8-49KYWHB/WPCB						3.30	125.0	



High Power 1W For Lambertian LEDs

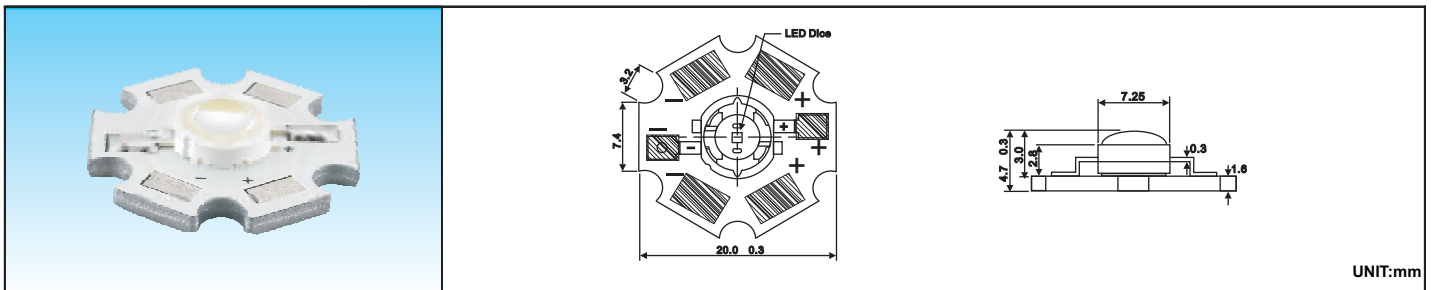
IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF	Brightness(lm)	View
	Emitter	Lens	λp	λd	Typical (V)	IV	Angle $2\theta 1/2$



UNIT:mm

HPB8C-43KG		Green	Water clear	520	525	3.60	55.0	120
HPB8C-44KY		Yellow		595	590	2.30	43.0	
HPB8C-45KR		Red		635	625	2.30	45.0	
HPB8C-48KBI		Blue		462	465	3.20	37.0	
HPB8C-49KWG		Pure White		6000°K	3.50	105.0		
HPB8C-49KWGA	3.60				125.0			
HPB8C-49KWHB	3.30				150.0			
HPB8C-49KYWG		Warm White		3300°K	3.50	95.0		
HPB8C-49KYWGA	3.60				110.0			
HPB8C-49KYWHB	3.30				125.0			



UNIT:mm

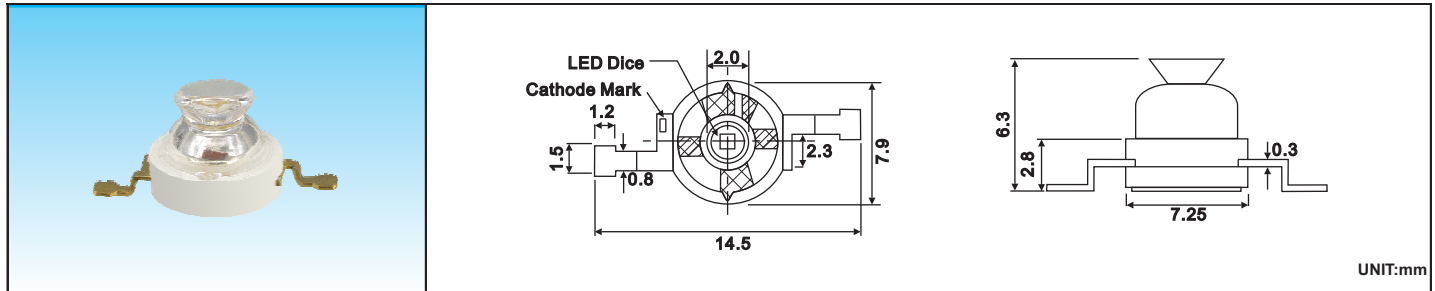
HPB8C-43KG/WPCB		Green	Water clear	520	525	3.60	55.0	120
HPB8C-44KY/WPCB		Yellow		595	590	2.30	43.0	
HPB8C-45KR/WPCB		Red		635	625	2.30	45.0	
HPB8C-48KBI/WPCB		Blue		462	465	3.20	37.0	
HPB8C-49KWG/WPCB		Pure White		6000°K	3.50	105.0		
HPB8C-49KWGA/WPCB	3.60				125.0			
HPB8C-49KWHB/WPCB	3.30				150.0			
HPB8C-49KYWG/WPCB		Warm White		3300°K	3.50	95.0		
HPB8C-49KYWGA/WPCB	3.60				110.0			
HPB8C-49KYWHB/WPCB	3.30				125.0			

High Power 1W For Side Emitting LEDs

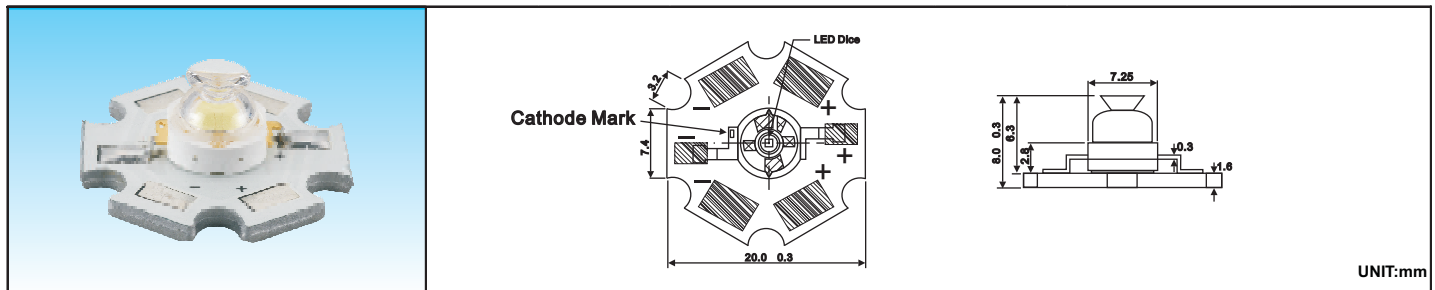


IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF Typical (V)	Brightness(lm) IV	View Angle 2θ 1/2
	Emitter	Lens	λ p	λ d			



HPS8-43KG		Green	Water clear	520	525	3.60	50.0	80
HPS8-44KY		Yellow		595	590	2.30	38.0	
HPS8-45KR		Red		635	625	2.30	40.0	
HPS8-48KBI		Blue		462	465	3.20	34.0	
HPS8-49KWG		Pure White		6000°K		3.50	95.0	
HPS8-49KWGA						3.60	110.0	
HPS8-49KWHB						3.30	142.0	
HPS8-49KYWG		Warm White		3300°K		3.50	86.0	
HPS8-49KYWGA						3.60	99.0	
HPS8-49KYWHB						3.30	118.0	



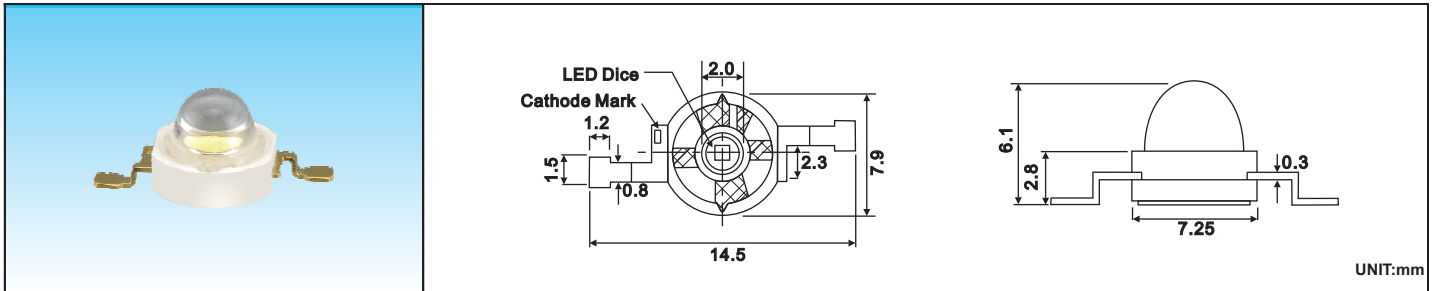
HPS8-43KG/WPCB		Green	Water clear	520	525	3.60	50.0	80
HPS8-44KY/WPCB		Yellow		595	590	2.30	38.0	
HPS8-45KR/WPCB		Red		635	625	2.30	40.0	
HPS8-48KBI/WPCB		Blue		462	465	3.20	34.0	
HPS8-49KWG/WPCB		Pure White		6000°K		3.50	95.0	
HPS8-49KWGA/WPCB						3.60	110.0	
HPS8-49KWHB/WPCB						3.30	142.0	
HPS8-49KYWG/WPCB		Warm White		3300°K		3.50	86.0	
HPS8-49KYWGA/WPCB						3.60	99.0	
HPS8-49KYWHB/WPCB						3.30	118.0	



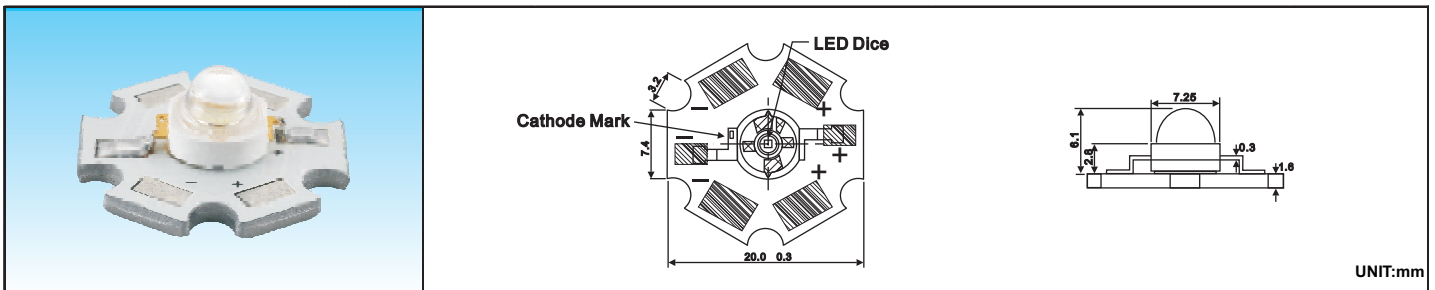
High Power 1W For Focusing LEDs

IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF Typical (V)	Brightness(lm) IV	View Angle 2θ 1/2
	Emitter	Lens	λ p	λ d			



HPD8-43KG		Green	Water clear	520	525	3.60	55.0	45
HPD8-44KY		Yellow		595	590	2.30	43.0	
HPD8-45KR		Red		635	625	2.30	45.0	
HPD8-48KBI		Blue		462	465	3.20	37.0	
HPD8-49KWG		Pure White		6000°K		3.50	105.0	
HPD8-49KWGA						3.60	125.0	
HPD8-49KWHB						3.30	150.0	
HPD8-49KYWG		Warm White		3300°K		3.50	95.0	
HPD8-49KYWGA						3.60	110.0	
HPD8-49KYWHB						3.30	125.0	



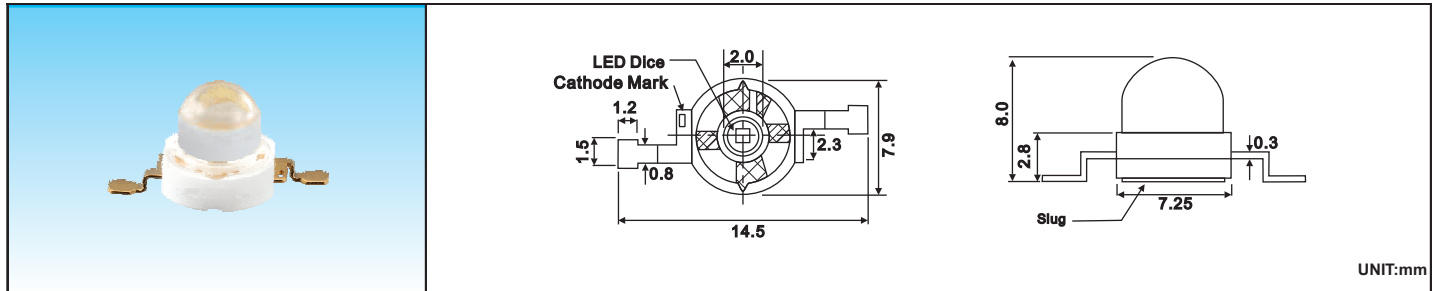
HPD8-43KG/WPCB		Green	Water clear	520	525	3.60	55.0	45
HPD8-44KY/WPCB		Yellow		595	590	2.30	43.0	
HPD8-45KR/WPCB		Red		635	625	2.30	45.0	
HPD8-48KBI/WPCB		Blue		462	465	3.20	37.0	
HPD8-49KWG/WPCB		Pure White		6000°K		3.50	105.0	
HPD8-49KWGA/WPCB						3.60	125.0	
HPD8-49KWHB/WPCB						3.30	150.0	
HPD8-49KYWG/WPCB		Warm White		3300°K		3.50	95.0	
HPD8-49KYWGA/WPCB						3.60	110.0	
HPD8-49KYWHB/WPCB						3.30	125.0	

High Power 1W For Focusing LEDs



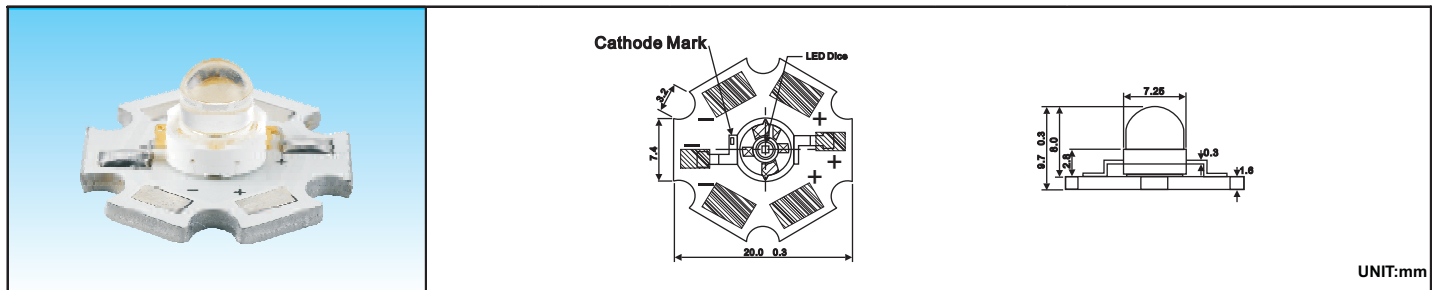
IF=350mA Ta=25°C

Device No	Color		Wavelength(nm)		VF Typical (V)	Brightness(lm) IV	View Angle 2θ 1/2
	Emitter	Lens	λ p	λ d			



UNIT:mm

HPE8-43KG		Green	Water clear	520	525	3.60	55.0	25
HPE8-44KY		Yellow		595	590	2.30	43.0	
HPE8-45KR		Red		635	625	2.30	45.0	
HPE8-48KBI		Blue		462	465	3.20	37.0	
HPE8-49KWG		Pure White		6000°K		3.50	105.0	
HPE8-49KWGA						3.60	125.0	
HPE8-49KWHB						3.30	150.0	
HPE8-49KYWG		Warm White		3300°K		3.50	95.0	
HPE8-49KYWGA						3.60	110.0	
HPE8-49KYWHB						3.30	125.0	



UNIT:mm

HPE8-43KG/WPCB		Green	Water clear	520	525	3.60	55.0	25
HPE8-44KY/WPCB		Yellow		595	590	2.30	43.0	
HPE8-45KR/WPCB		Red		635	625	2.30	45.0	
HPE8-48KBI/WPCB		Blue		462	465	3.20	37.0	
HPE8-49KWG/WPCB		Pure White		6000°K		3.50	105.0	
HPE8-49KWGA/WPCB						3.60	125.0	
HPE8-49KWHB/WPCB						3.30	150.0	
HPE8-49KYWG/WPCB		Warm White		3300°K		3.50	95.0	
HPE8-49KYWGA/WPCB						3.60	110.0	
HPE8-49KYWHB/WPCB						3.30	125.0	