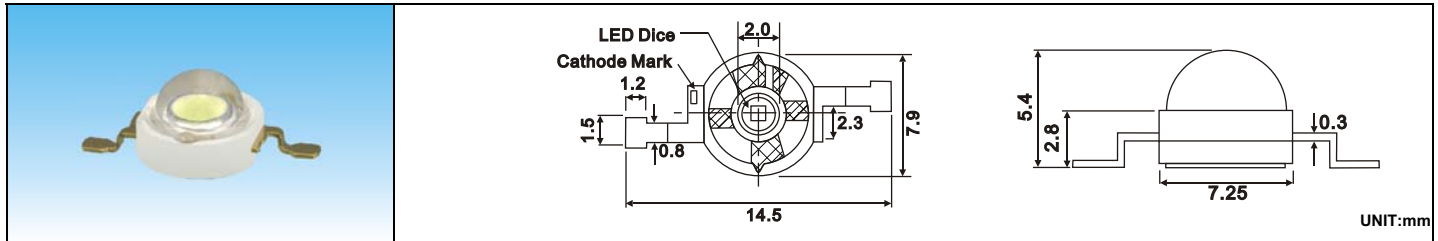


High Power 1W For Lambertian LEDs

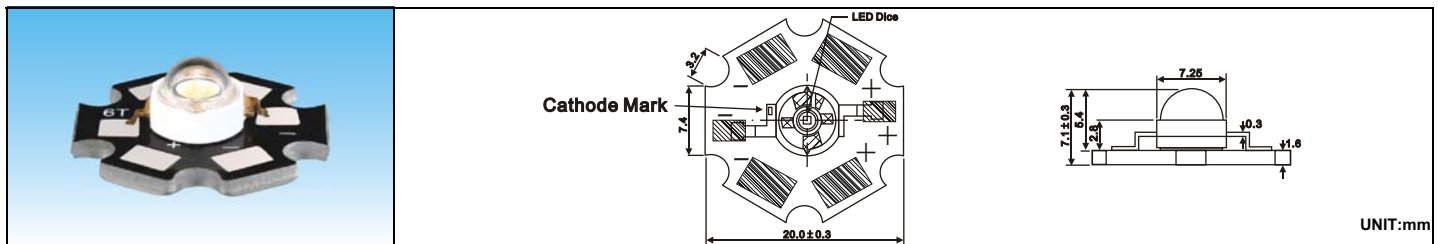


IF=350mA Ta=25°C

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	
HPB8-48KB		Blue		462	465	3.60	16.0	
HPB8-48KBB		Blue		462	465	3.30	33.0	
HPB8-49KW		Pure White		6000°K		3.60	60.0	
HPB8-49KWB		Pure White		6000°K		3.30	88.0	
HPB8-49KYW		Warm White		3300°K		3.60	55.0	
HPB8-49KYWB		Warm White		3300°K		3.30	60.0	



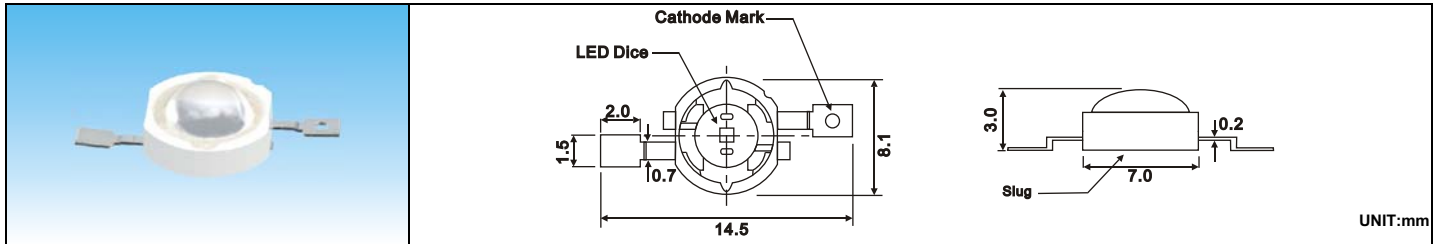
HPB8-43KG/PCB		Green	Water clear	520	525	3.60	55.0	120
HPB8-44KY/PCB		Yellow		595	590	2.30	43.0	
HPB8-45KR/PCB		Red		635	625	2.30	45.0	
HPB8-48KB/PCB		Blue		462	465	3.60	16.0	
HPB8-48KBB/PCB		Blue		462	465	3.30	33.0	
HPB8-49KW/PCB		Pure White		6000°K		3.60	60.0	
HPB8-49KWB/PCB		Pure White		6000°K		3.30	88.0	
HPB8-49KYW/PCB		Warm White		3300°K		3.60	55.0	
HPB8-49KYWB/PCB		Warm White		3300°K		3.30	60.0	



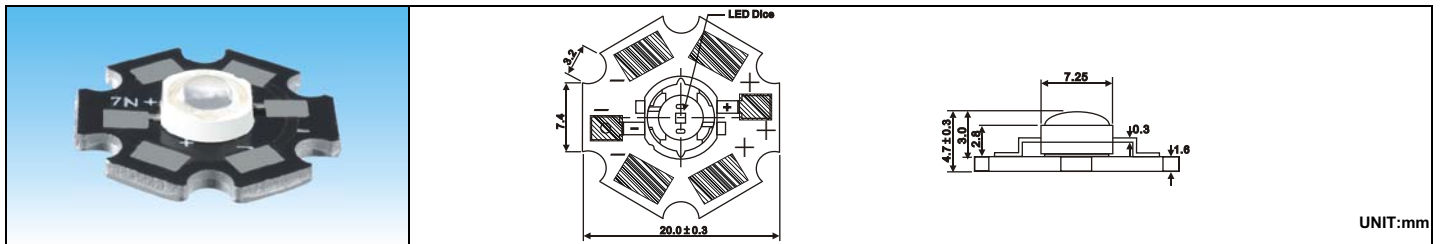
High Power 1W For Lambertian LEDs

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			



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-48KB		Blue		462	465	3.60	16.0	
HPB8C-48KBB		Blue		462	465	3.30	33.0	
HPB8C-49KW		Pure White		6000°K		3.60	60.0	
HPB8C-49KWB		Pure White		6000°K		3.30	88.0	
HPB8C-49KYW		Warm White		3300°K		3.60	55.0	
HPB8C-49KYWB		Warm White		3300°K		3.30	60.0	



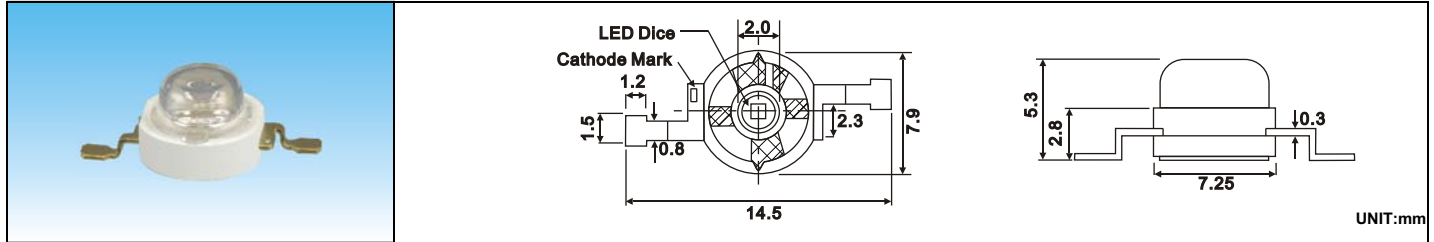
HPB8C-43KG/PCB		Green	Water clear	520	525	3.60	55.0	120
HPB8C-44KY/PCB		Yellow		595	590	2.30	43.0	
HPB8C-45KR/PCB		Red		635	625	2.30	45.0	
HPB8C-48KB/PCB		Blue		462	465	3.60	16.0	
HPB8C-48KBB/PCB		Blue		462	465	3.30	33.0	
HPB8C-49KW/PCB		Pure White		6000°K		3.60	60.0	
HPB8C-49KWB/PCB		Pure White		6000°K		3.30	88.0	
HPB8C-49KYW/PCB		Warm White		3300°K		3.60	55.0	
HPB8C-49KYWB/PCB		Warm White		3300°K		3.30	60.0	

High Power 1W For Batwing LEDs

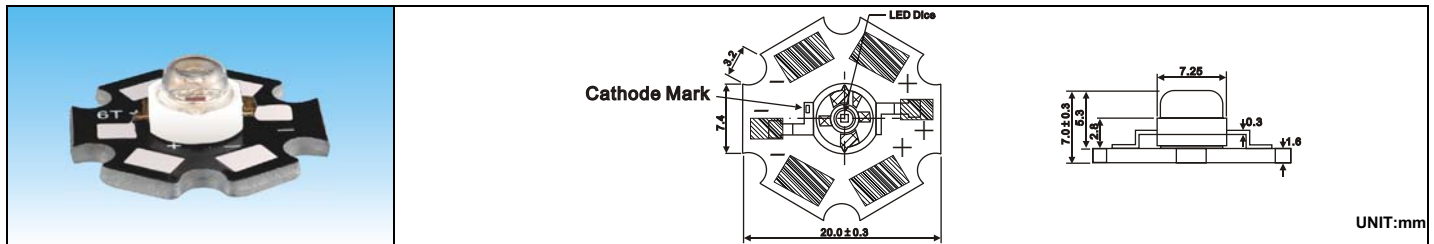


IF=350mA Ta=25°C

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



HPC8-43KG		Green	Water clear	520	525	3.60	55.0	110
HPC8-44KY		Yellow		595	590	2.30	43.0	
HPC8-45KR		Red		635	625	2.30	45.0	
HPC8-48KB		Blue		462	465	3.60	16.0	
HPC8-48KBB		Blue		462	465	3.30	33.0	
HPC8-49KW		Pure White		6000°K		3.60	60.0	
HPC8-49KWB		Pure White		6000°K		3.30	88.0	
HPC8-49KYW		Warm White		3300°K		3.60	55.0	
HPC8-49KYWB		Warm White		3300°K		3.30	60.0	



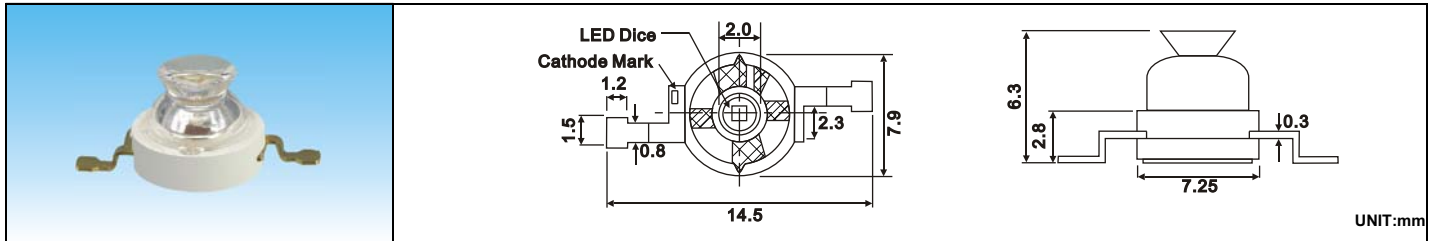
HPC8-43KG/PCB		Green	Water clear	520	525	3.60	55.0	110
HPC8-44KY/PCB		Yellow		595	590	2.30	43.0	
HPC8-45KR/PCB		Red		635	625	2.30	45.0	
HPC8-48KB/PCB		Blue		462	465	3.60	16.0	
HPC8-48KBB/PCB		Blue		462	465	3.30	33.0	
HPC8-49KW/PCB		Pure White		6000°K		3.60	60.0	
HPC8-49KWB/PCB		Pure White		6000°K		3.30	88.0	
HPC8-49KYW/PCB		Warm White		3300°K		3.60	55.0	
HPC8-49KYWB/PCB		Warm White		3300°K		3.30	60.0	



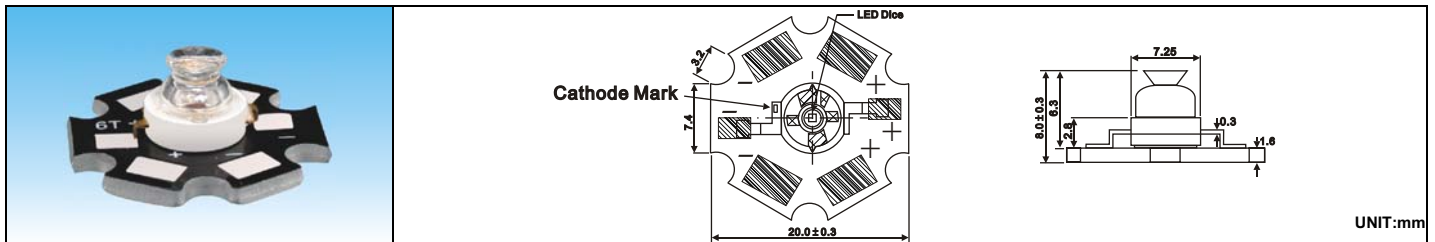
High Power 1W For Side Emitting LEDs

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	
HPS8-48KB		Blue		462	465	3.60	15.0	
HPS8-48KBB		Blue		462	465	3.30	30.0	
HPS8-49KW		Pure White		6000°K		3.60	54.0	
HPS8-49KWB		Pure White		6000°K		3.30	80.0	
HPS8-49KYW		Warm White		3300°K		3.60	50.0	
HPS8-49KYWB		Warm White		3300°K		3.30	54.0	



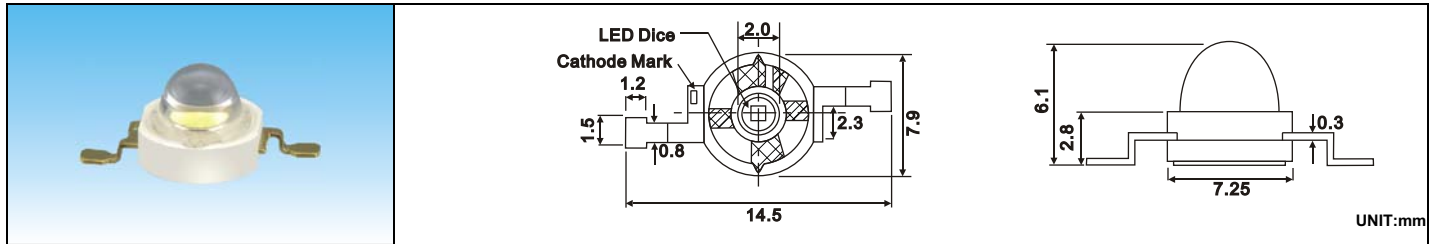
HPS8-43KG/PCB		Green	Water clear	520	525	3.60	50.0	±80
HPS8-44KY/PCB		Yellow		595	590	2.30	38.0	
HPS8-45KR/PCB		Red		635	625	2.30	40.0	
HPS8-48KB/PCB		Blue		462	465	3.60	15.0	
HPS8-48KBB/PCB		Blue		462	465	3.30	30.0	
HPS8-49KW/PCB		Pure White		6000°K		3.60	54.0	
HPS8-49KWB/PCB		Pure White		6000°K		3.30	80.0	
HPS8-49KYW/PCB		Warm White		3300°K		3.60	50.0	
HPS8-49KYWB/PCB		Warm White		3300°K		3.30	54.0	

High Power 1W For Focusing LEDs

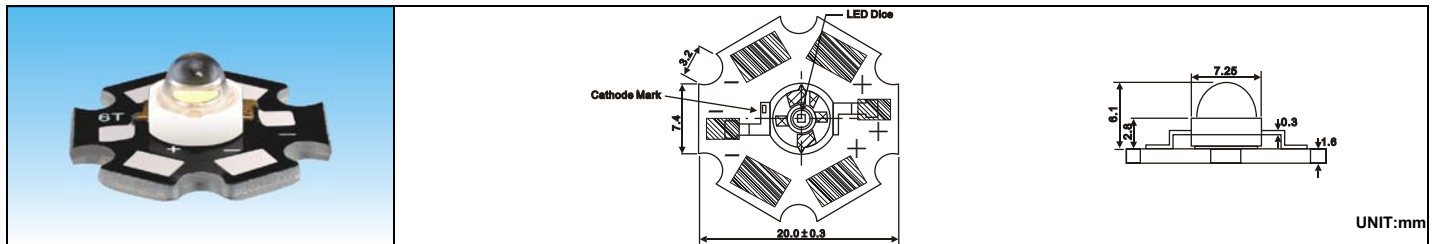


IF=350mA Ta=25°C

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	
HPD8-48KB		Blue		462	465	3.60	16.0	
HPD8-48KBB		Blue		462	465	3.30	33.0	
HPD8-49KW		Pure White		6000°K		3.60	60.0	
HPD8-49KWB		Pure White		6000°K		3.30	88.0	
HPD8-49KYW		Warm White		3300°K		3.60	55.0	
HPD8-49KYWB		Warm White		3300°K		3.30	60.0	



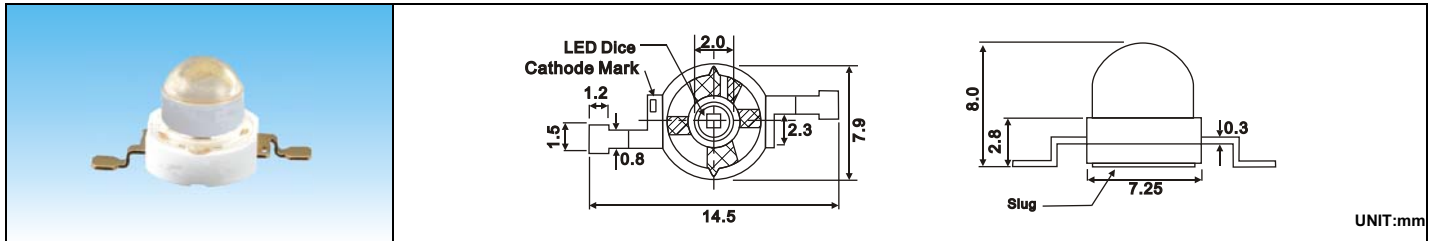
HPD8-43KG/PCB		Green	Water clear	520	525	3.60	55.0	45
HPD8-44KY/PCB		Yellow		595	590	2.30	43.0	
HPD8-45KR/PCB		Red		635	625	2.30	45.0	
HPD8-48KB/PCB		Blue		462	465	3.60	16.0	
HPD8-48KBB/PCB		Blue		462	465	3.30	33.0	
HPD8-49KW/PCB		Pure White		6000°K		3.60	60.0	
HPD8-49KWB/PCB		Pure White		6000°K		3.30	88.0	
HPD8-49KYW/PCB		Warm White		3300°K		3.60	55.0	
HPD8-49KYWB/PCB		Warm White		3300°K		3.30	60.0	



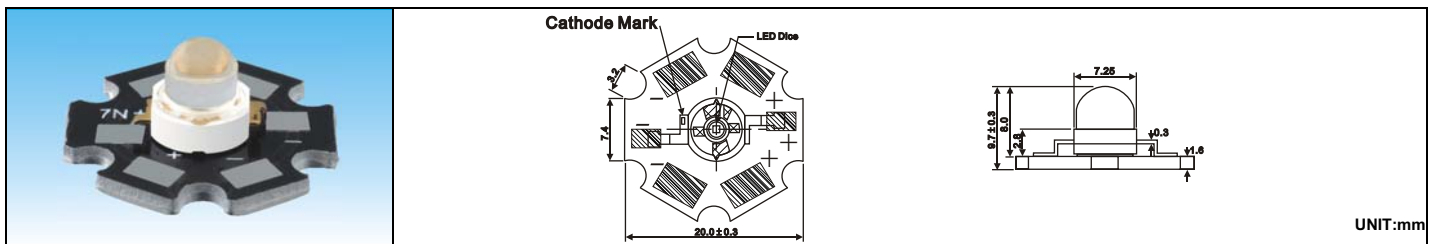
High Power 1W For Focusing LEDs

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			



Device No	Color	Wavelength(nm)	VF Typical (V)	Brightness(lm) IV	View Angle 2θ 1/2
HPE8-43KG	Green	520	3.60	55.0	25
HPE8-44KY	Yellow	595	2.30	43.0	
HPE8-45KR	Red	635	2.30	45.0	
HPE8-48KB	Blue	462	3.60	16.0	
HPE8-48KBB	Blue	462	3.30	33.0	
HPE8-49KW	Pure White	6000°K	3.60	60.0	
HPE8-49KWB	Pure White	6000°K	3.30	88.0	
HPE8-49KYW	Warm White	3300°K	3.60	55.0	
HPE8-49KYWB	Warm White	3300°K	3.30	60.0	



Device No	Color	Wavelength(nm)	VF Typical (V)	Brightness(lm) IV	View Angle 2θ 1/2
HPE8-43KG/PCB	Green	520	3.60	55.0	25
HPE8-44KY/PCB	Yellow	595	2.30	43.0	
HPE8-45KR/PCB	Red	635	2.30	45.0	
HPE8-48KB/PCB	Blue	462	3.60	16.0	
HPE8-48KBB/PCB	Blue	462	3.30	33.0	
HPE8-49KW/PCB	Pure White	6000°K	3.60	60.0	
HPE8-49KWB/PCB	Pure White	6000°K	3.30	88.0	
HPE8-49KYW/PCB	Warm White	3300°K	3.60	55.0	
HPE8-49KYWB/PCB	Warm White	3300°K	3.30	60.0	