BL-HP20AxxxL



Features:

- 0 1W and 3W, 5W LEDs suitable for illumination lamps and decorative lighting
- Longer service and less luminosity loss, 50,000hours
- Ø Different emitting colors are available
- Ø Working current: 200-350mA, 700mA, 1050mA
- Ø With or without heat sink are both available
- Lambertian, batwing and side emitting are all available
- Ø Light output from 20 to 170 lumens

Applications:

Commercial lighting Residential lighting Decorative lighting





1Watt Lambertian

Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=350mA)

1W Star with Lambertian type Part Number	Chip							View
	Emitted Color	% n (nm) or CTT	Lens Type	Forward Voltage(VF) Unit:V		Flux Unit:lm @350mA		ing Angl e 2¦H/2 (deg)
				Тур	Max	Min.	Тур.	(ueg)
BL-HP20AUECL	Ultra Orange	630	Water Clear	2.2	2.75	35	45	140
BL-HP20AUYCL	Ultra Yellow	590		2.2	2.75	35	45	
BL-HP20APGCL	Ultra Pure Green	525		3.2	3.8	50	60	
BL-HP20ABGCL	Ultra Bluish Green	505		3.2	3.8	40	50	
BL-HP20AUBCL	Ultra Blue	470		3.2	3.8	10	15	
BL-HP20AUWCL	Ultra White	6000k		3.2	3.8	70	90	
BL-HP20AUW2CL	Ultra Warm White	3200k		3.2	3.8	50	70	

Absolute maximum ratings (Ta=25°C)

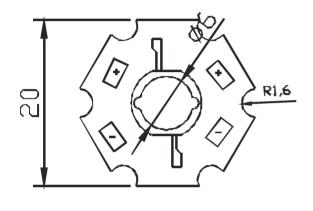
7.000 ide indxiiidii ideiiigo (id=20-0)									
Parameter	UE	UY	BG	PG	UB	UW	Unit		
Forward Current I _F	350	350	350	350	350	350	mA		
LED Junction Temperature	120	120	120	120	120	120	°C		
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	500	500	500	500	500	500	mA		
Operation Temperature T _{OPR}	-40 to +80						°C		
Storage Temperature T _{STG}						°C			
Aluminum-Core Pcb	105								
Temperature									

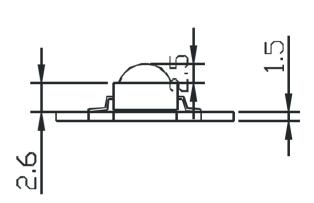
APPROVED: XU L CHECKED: ZHANG WH DRAWN: LI FS REV NO: V.4 Page 1 of 4 WWW.BETLUX.COM EMAIL: SALES@BETLUX.COM, BETLUX@BETLUX.COM



Package configuration & Internal circuit diagram

BL-HP20A Series





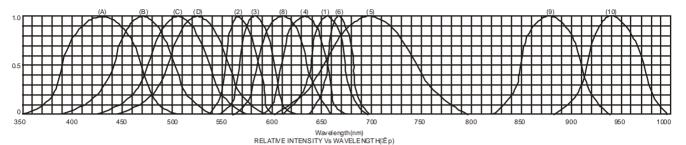
Notes:

- 1. All dimensions are in millimeters (inches)
- 2. Tolerance is 0.25(0.01")unless otherwise noted.
- 3. Specifications are subject to change without notice.

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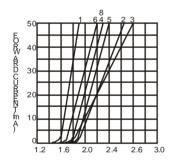
Typical electrical-optical characteristics curves:



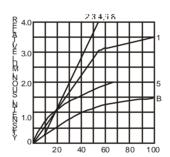
(1) - GaAsP/GaAs 655nm/Red

- (2) GaP 570nm/Yellow Green
- (3) Ga As P/GaP 585nm/Yellow
- (4) GaAsp/GaP 635nm/Orange & Hi-Eff Red
- (5) GaP 700nm/Bright Red
- (6) Ga AlAs/GaAs 660nm/Super Red
- (8) GaAsP/GaP 610nm/Super Red

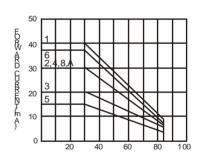
- (9) GaAlAs 880nm
- (10) GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) GaN/SiC 430nm/Blue
- (B) InGaN/SiC 470nm/Blue
- (C) InGaN/SiC 505nm/Ultra Green
- (D) InGaAl/SiC 525nm/Ultra Green



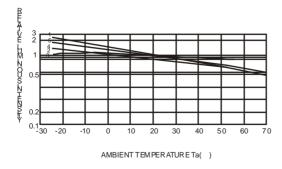
FORWARD VOLTAGE (Vf) FORWARD CURRENT VS. FORWARD VOLTAGE

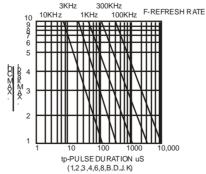


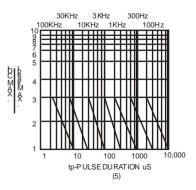
FORWARD CURRENT (mA) RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



AMBIENT TEMPERATURE Ta() FORWARD CURRENT VS. AMBIENT TEMPERATURE







NOTE:25 free air temperature unless otherwise specified

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Packing and weighting

