

High Power LED lamp

BL-HP20AxxxB

Features:


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

Applications:

- Commercial lighting
- Residential lighting
- Decorative lighting

1Watt Batwing

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

1W Star with Batwing type  Part Number	Chip		Lens Type	Forward Voltage(VF) Unit:V		Flux Unit:lm @350mA		Viewing Angle 2θ1/2 (deg)
	Emitted Color	λ _P (nm) or CTT		Typ	Max	Min.	Typ.	
BL-HP20AUECB	Ultra Orange	630	Water Clear	2.2	2.75	15	25	80
BL-HP20AUYCB	Ultra Yellow	590		2.2	2.75	20	23	
BL-HP20APGCB	Ultra Pure Green	525		3.2	3.8	15	23	
BL-HP20AUBCB	Ultra Blue	470		3.5	3.8	8	13	
BL-HP20AUWCB	Ultra White	6000k		3.5	3.8	18	28	
BL-HP20AUW2CB	Ultra Warm White	3200k		3.5	3.8	15	23	

Absolute maximum ratings (Ta=25°C)

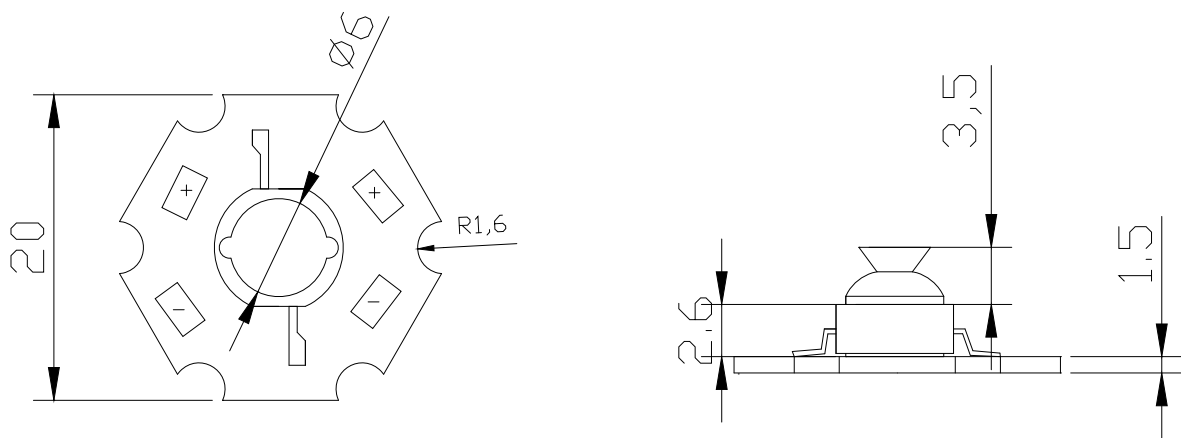
Parameter	UE	UY	BG	PG	UB	UW	Unit
Forward Current I _F	350	350	350	350	350	350	mA
LED Junction Temperature	120	120	120	120	120	120	°C
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	500	500	500	500	500	500	mA
Operation Temperature T _{OPR}	-40 to +80						°C
Storage Temperature T _{STG}	-40 to +85						°C
Aluminum-Core Pcb Temperature	105						°C

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■ Package configuration & Internal circuit diagram

BL-HP20AxxS Side emitting Series



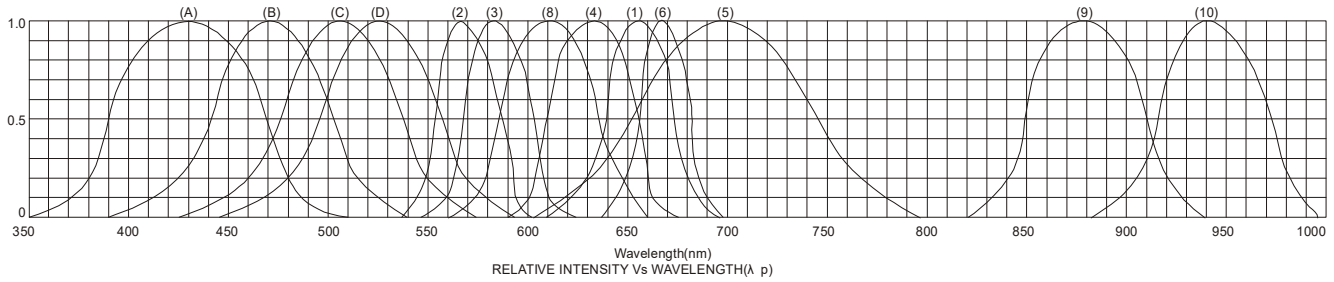
Notes:

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

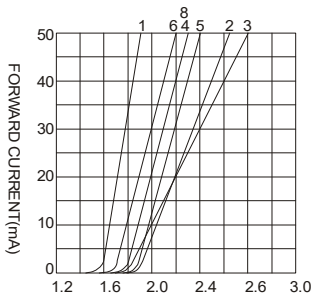
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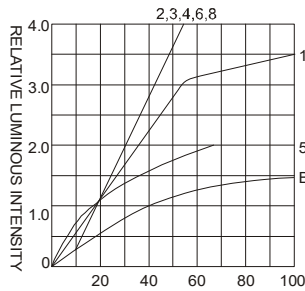
Typical electrical-optical characteristics curves:



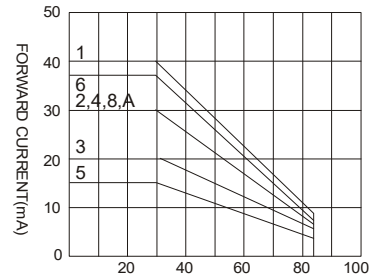
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) - GaN/SiC 430nm/Blue
- (B) - InGaN/SiC 470nm/Blue
- (C) - InGaN/SiC 505nm/Ultra Green
- (D) - InGaAl/SiC 525nm/Ultra Green



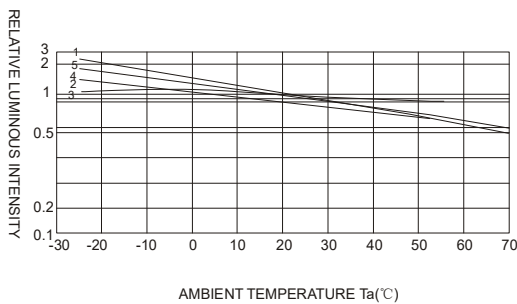
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



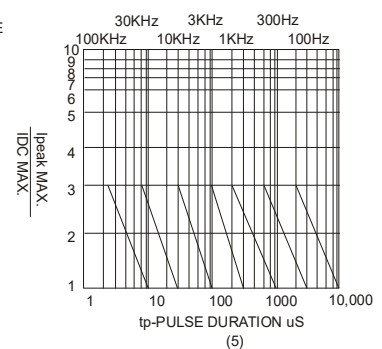
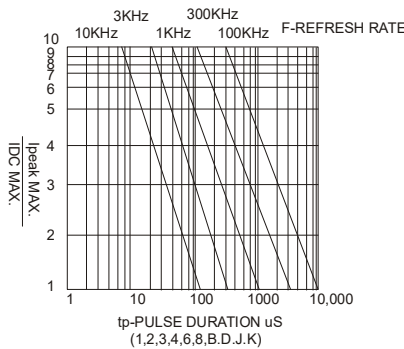
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta(°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(°C)



NOTE:25°C free air temperature unless otherwise specified

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■ **Packing and weighting**

