

High Power LED

BL-HP39EXX

Features:

- Ø 30W LEDs suitable for illumination lamps and decorative lighting
- Ø Longer service and less luminosity loss, 50,000hours
- Ø Different emitting colors are available
- Ø Lambertian, batwing and side emitting are all available

Applications:

Commercial lighting
Residential lighting
Decorative lighting



1Watt Lambertian

Electrical-optical characteristics: (Ta=25°C)

Part Number	Chip		Lens Type	Forward Voltage(VF) Unit: V		Flux Unit:lm		Viewing Angle 2θ/2 (deg)
	Emitted Color	λ _p (nm) or CTT		Typ	Max	Min.	Typ.	
				Water Clear				
BL-HP39EUEC	Ultra Orange	630		22.0	24.0	3000	3500	
BL-HP39EUYC	Ultra Yellow	590		22.0	24.0	3000	3500	
BL-HP39EPGC	Ultra Pure Green	525		32.0	36.0	4000	4500	
BL-HP39EBGC	Ultra Bluish Green	505		32.0	36.0	3500	4000	
BL-HP39EUBC	Ultra Blue	470		32.0	36.0	1000	1200	
BL-HP39EUWC	Ultra White	6000k		32.0	36.0	4000	6000	
BL-HP39EUW2C	Ultra Warm White	3200k		32.0	36.0	3000	4000	

Absolute maximum ratings (Ta=25°C)

Parameter	UE	UY	BG	PG	UB	UW	Unit
Forward Current I _F	4000	4000	3200	3200	3200	3200	mA
LED Junction Temperature	120	120	120	120	120	120	°C
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	6000	6000	5000	5000	5000	5000	mA
Operation Temperature T _{OPR}	-40 to +80						°C
Storage Temperature T _{STG}	-40 to +100						°C
Aluminum-Core Pcb Temperature	105						°C

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Package configuration & Internal circuit diagram



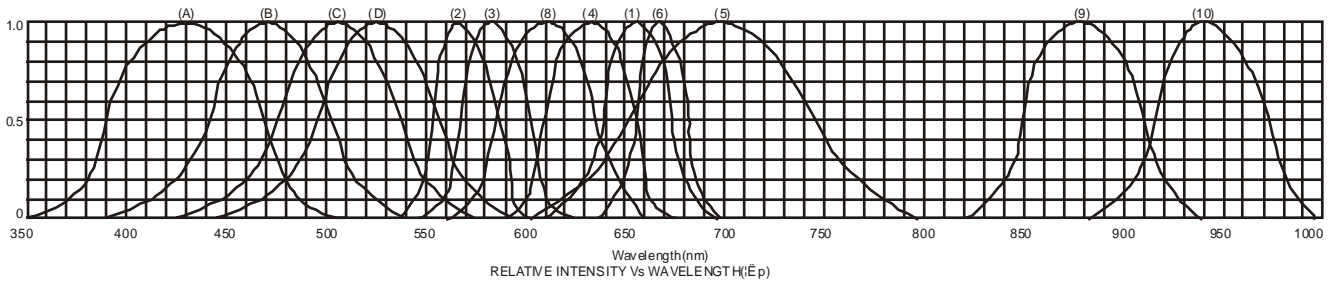
Notes:

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.

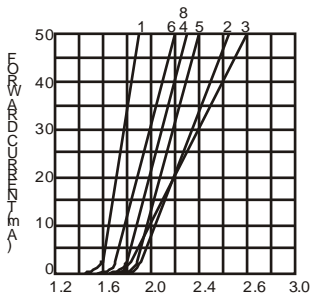
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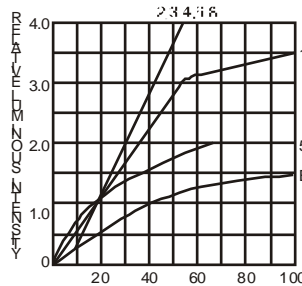
Typical electrical-optical characteristics curves:



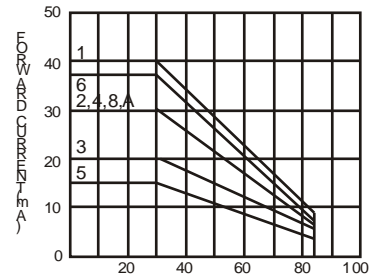
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



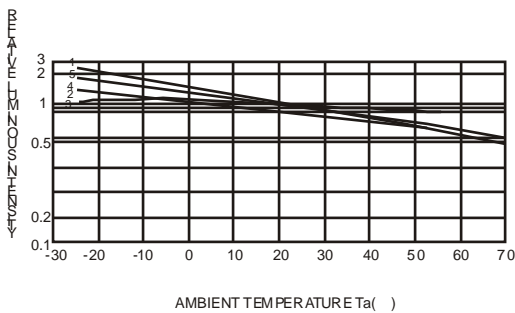
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



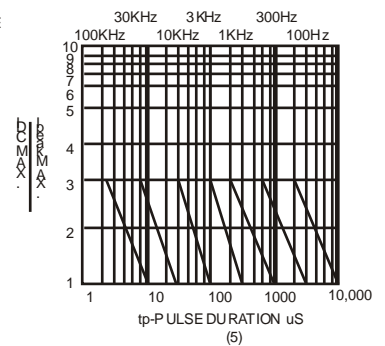
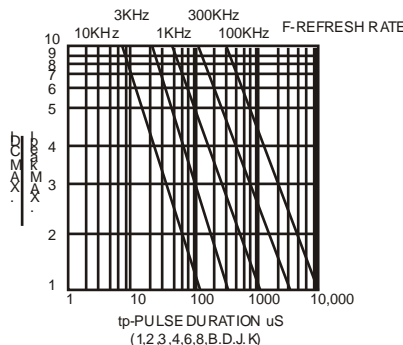
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta()



NOTE:25 free air temperature unless otherwise specified