

High Power LED

BL-HP26EXX

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-HP26EUEC	Ultra Orange	630		13.0	15.0	800	1000	
BL-HP26EUYC	Ultra Yellow	590		13.0	15.0	800	1000	
BL-HP26EPGC	Ultra Pure Green	525		18.0	22.0	2000	2200	
BL-HP26EBGC	Ultra Bluish Green	505		18.0	22.0	1500	1800	
BL-HP26EUBC	Ultra Blue	470		18.0	22.0	250	350	
BL-HP26EUWC	Ultra White	6000k		18.0	22.0	1500	1800	
BL-HP26EUW2C	Ultra Warm White	3200k		18.0	22.0	1200	1500	

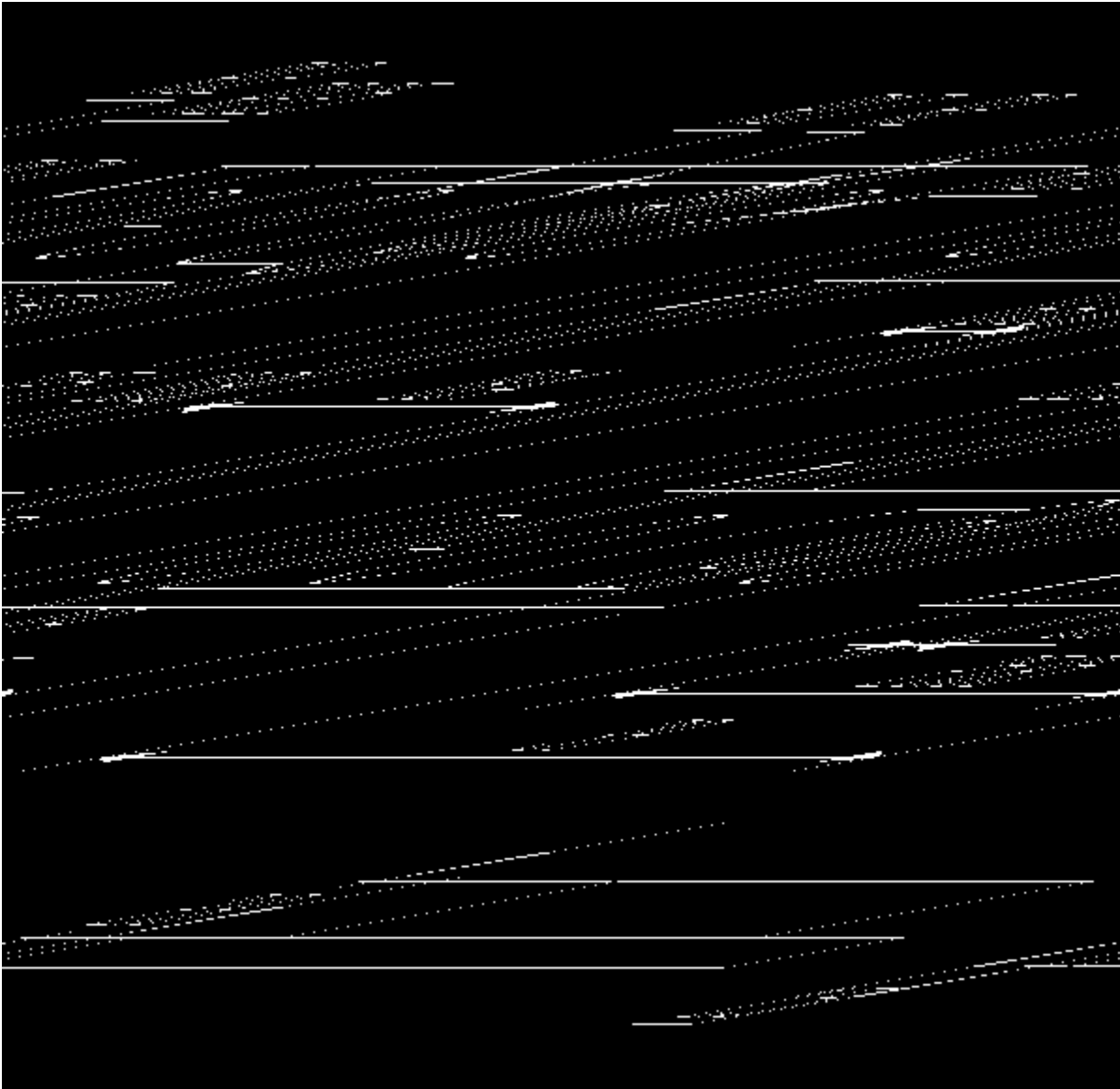
Absolute maximum ratings (Ta=25°C)

Parameter	UE	UY	BG	PG	UB	UW	Unit
Forward Current I _F	2000	2000	1600	1600	1600	1600	mA
LED Junction Temperature	120	120	120	120	120	120	°C
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	4000	4000	3000	3000	3000	3000	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



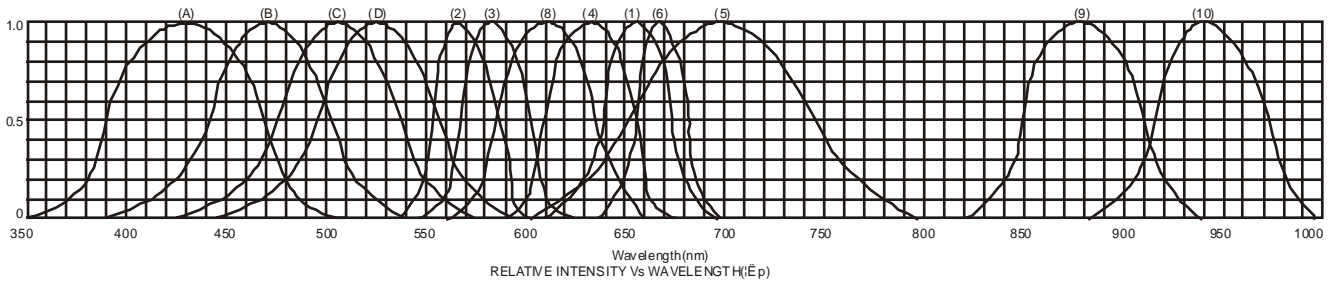
Notes:

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.

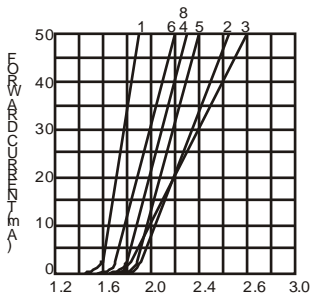
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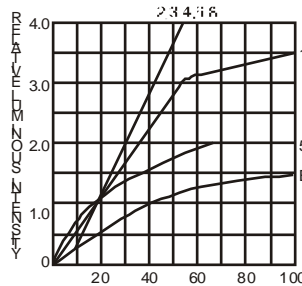
Typical electrical-optical characteristics curves:



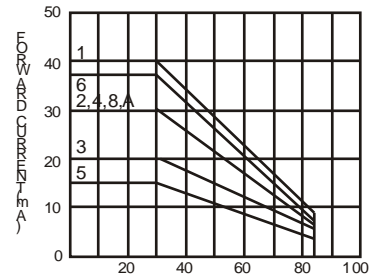
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



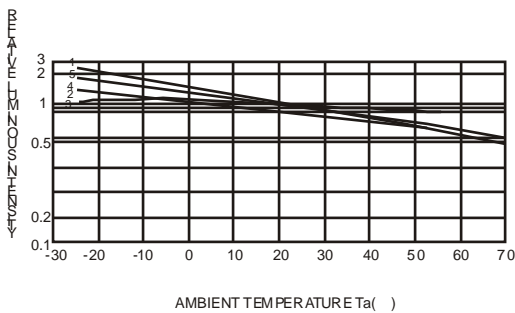
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



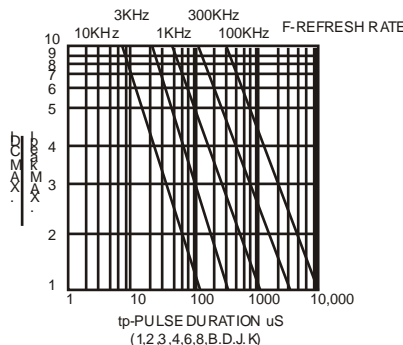
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



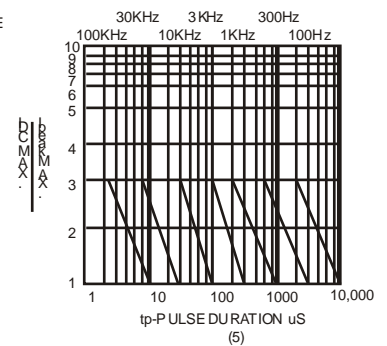
AMBIENT TEMPERATURE Ta()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta()



tp-PULSE DURATION µs
(1,2,3,4,6,8,B,D,J,K)



tp-PULSE DURATION µs
(5)

NOTE:25 free air temperature unless otherwise specified

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Packing and weighting

