■ Features:

- 10W LEDs suitable for illumination lamps and decorative lighting
- Longer service and less luminosity loss, 50,000hours
- Different emitting colors are available

■ Applications:

Commercial lighting
Residential lighting
Decorative lighting

RoHs Compliance

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

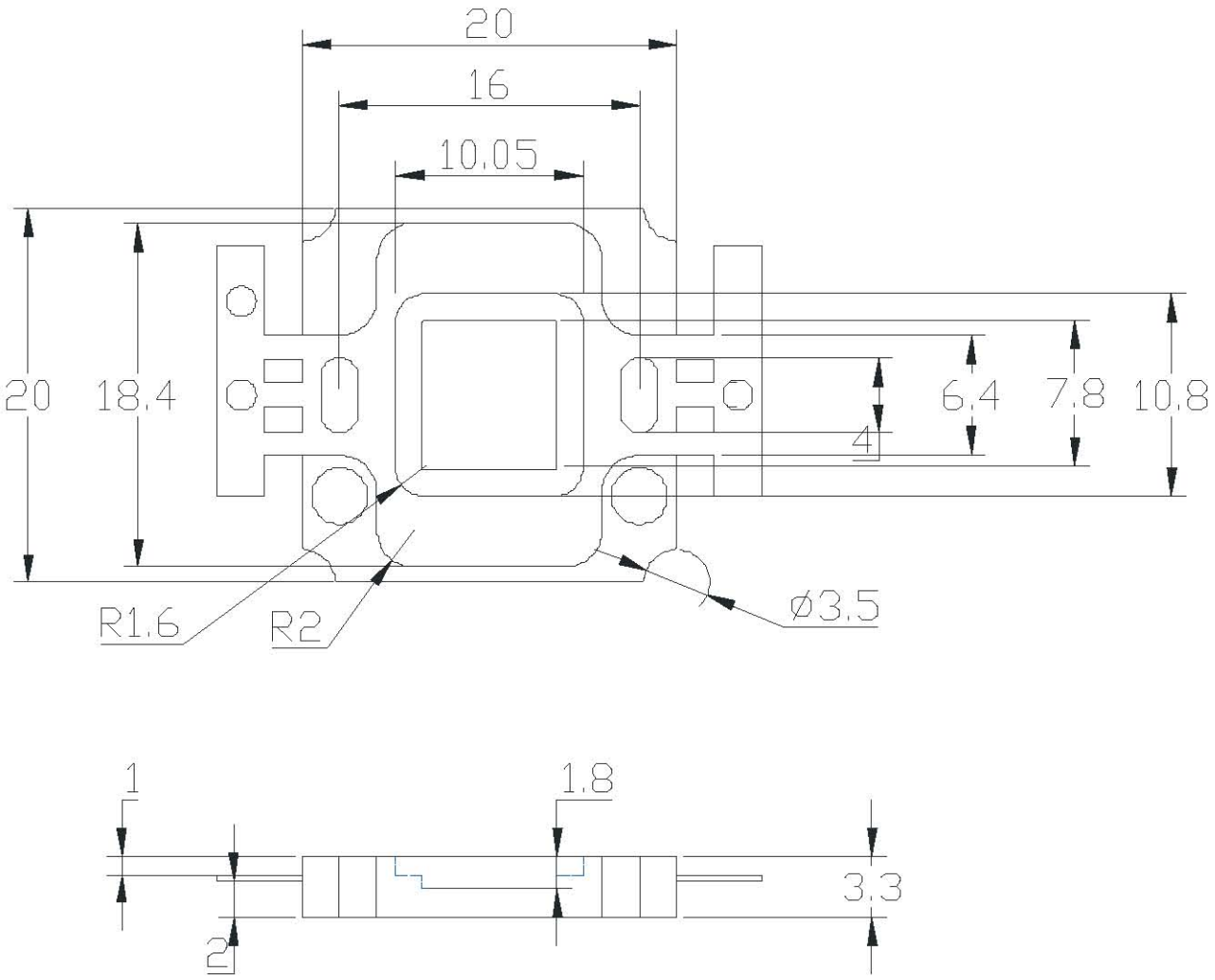
■ Electrical-optical characteristics: (Ta=25°C)

Part Number	Chip		Lens Type	Forward Voltage(VF) Unit:V		Flux Unit:lm		Viewing Angle 2θ1/2 (deg)
	Emitted Color	λ_P (nm) or CTT		Typ	Max	Min.	Typ.	
BL-HP30EUEC-10W	Ultra Red	630	Water Clear	6.5	7.0	200	300	105
BL-HP30EUYC-10W	Ultra Yellow	590		6.5	7.0	200	300	
BL-HP30EPGC-10W	Ultra Pure Green	525		10	11	400	500	
BL-HP30EBGC-10W	Ultra Bluish Green	505		10	11	350	450	
BL-HP30EUBC-10W	Ultra Blue	470		10	11	200	250	
BL-HP30EUWC-10W	Ultra White	-		10	11	800	1000	

■ Absolute maximum ratings (Ta=25°C)

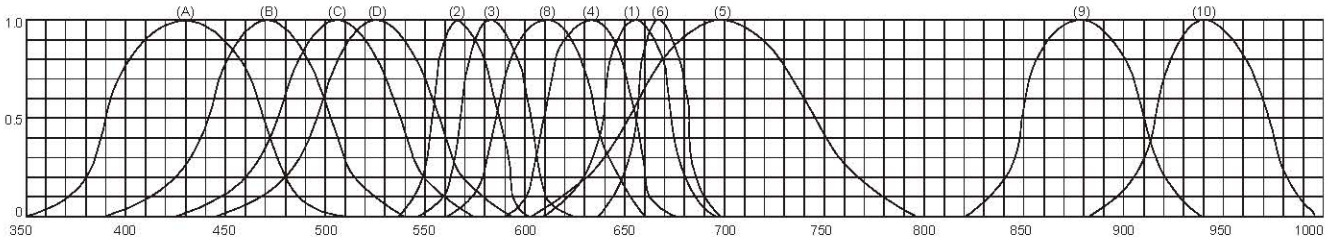
Parameter	UE	UY	BG	PG	UB	UW	Unit
Forward Current I_F	1200	1200	1000	1000	1000	1000	mA
LED Junction Temperature	120	120	120	120	120	120	°C
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	2000	2000	2000	2000	2000	2000	mA
Operation Temperature T_{OPR}	-40 to +80						°C
Storage Temperature T_{STG}	-40 to +100						°C
Aluminum-Core Pcb Temperature	105						°C

■ Package configuration & Internal circuit diagram



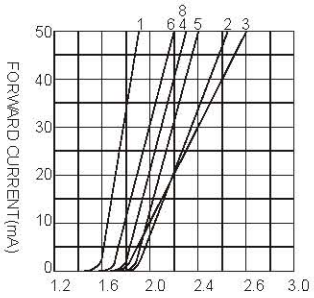
Notes:
1. All dimensions are in millimeters (inches)
2. Tolerance is ±0.25(0.01")unless otherwise noted.
3. Specifications are subject to change without notice.

■ Typical electrical-optical characteristics curves:

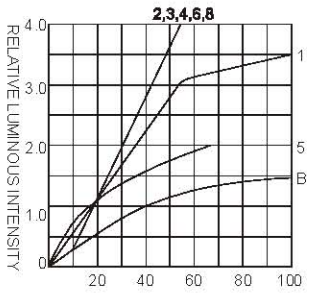


RELATIVE INTENSITY Vs WAVELENGTH(λ p)

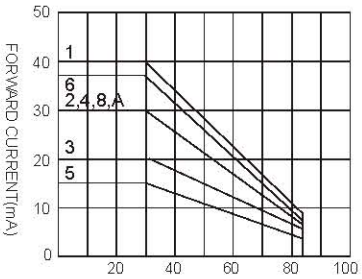
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



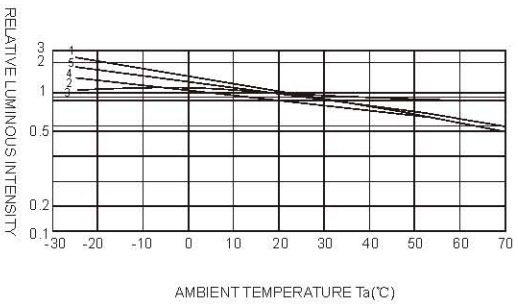
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



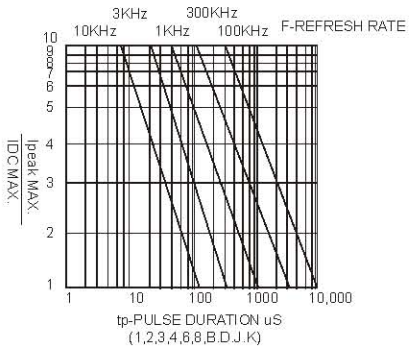
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



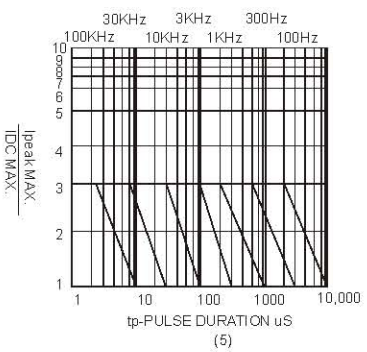
AMBIENT TEMPERATURE Ta(℃)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



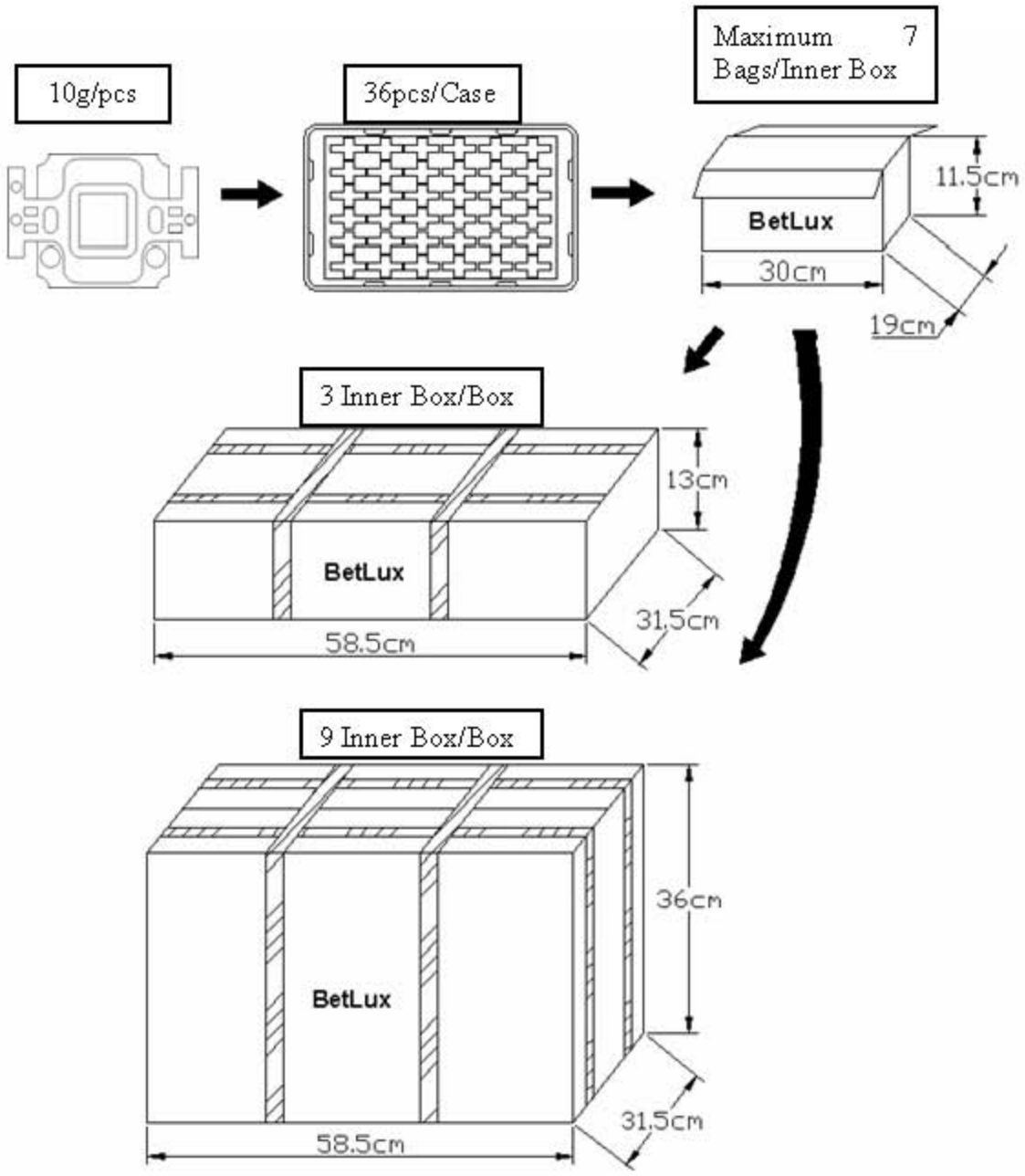
AMBIENT TEMPERATURE Ta(℃)



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



tp-PULSE DURATION uS
(5)

NOTE:25℃ free air temperature unless otherwise specified

■ Packing and weighting