

Round Type LED lamp

BL-L513-HT30

■ Features:

- 5mm Round Type LED lamp
- Ultra brightness.
- Choice of various viewing angles.
- Diffused, Transparent and Water clear lens
- IC compatible /Low current capability.
- RoHs Compliance



■ Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2θ1/2 (deg)
	Emitted Color	Material	λ _P (nm)						
					Typ	Max	Min.	Typ.	
BL-L513UEC-HT30	Ultra Orange	AlGaInP	630	Water Clear	2.10	2.50	800	5000	30
BL-L513UYC-HT30	Ultra Yellow	AlGaInP	590		2.10	2.50	1000	4500	
BL-L513PGC-HT30	Ultra Pure Green	InGaIn	525		3.80	4.50	2000	5000	
BL-L513BGC-HT30	Ultra Bluish Green	InGaIn	505		3.80	4.50	1800	4000	
BL-L513UBC-HT30	Ultra Blue	InGaIn	470		2.70	4.20	2000	5000	
BL-L513UWC-HT30	Ultra White	InGaIn	/		2.70	4.20	3000	6000	

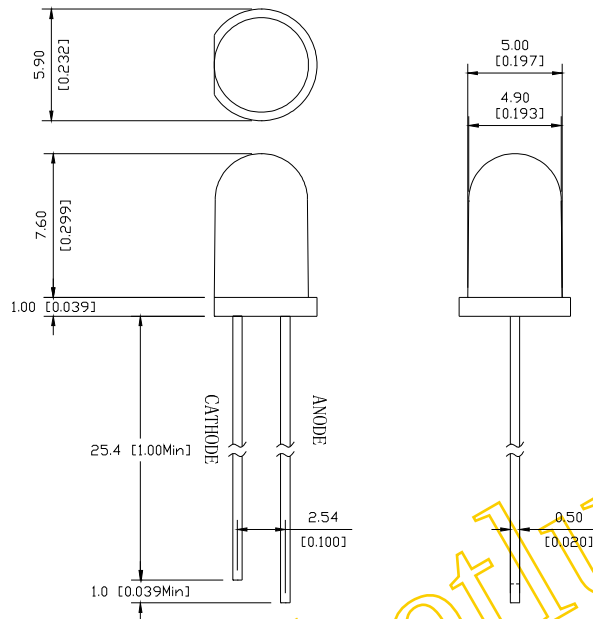
■ Absolute maximum ratings (Ta=25°C)

Parameter	UE	UY	PG	BG	UB	W	Unit
Forward Current I _F	30	30	30	30	30	30	mA
Power Dissipation P _d	65	65	110	110	120	120	mW
Reverse Voltage V _R	5	5	5	5	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	150	150	150	100	100	100	mA
Operation Temperature T _{OPR}	-40 to +80						°C
Storage Temperature T _{STG}	-40 to +85						°C
Lead Soldering Temperature TSOL	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)						°C

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■ Package configuration & Internal circuit diagram



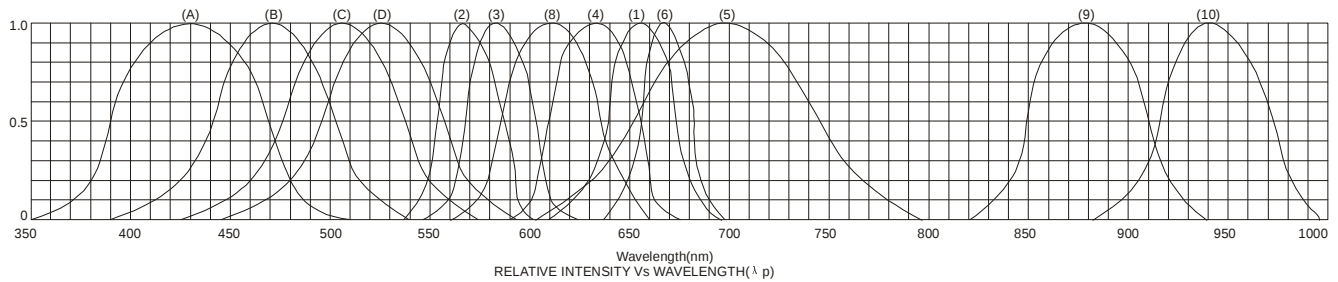
Notes:

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.

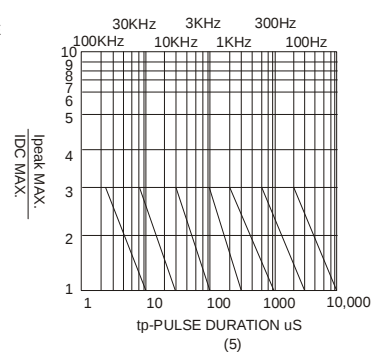
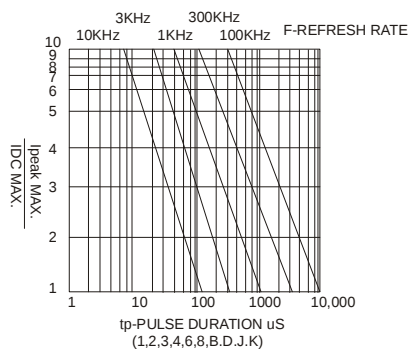
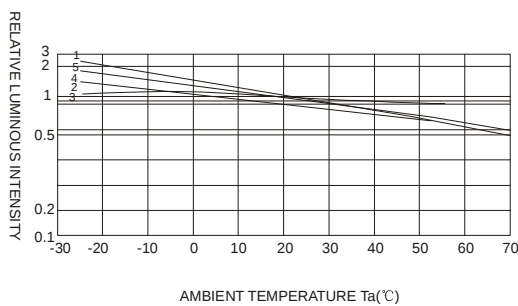
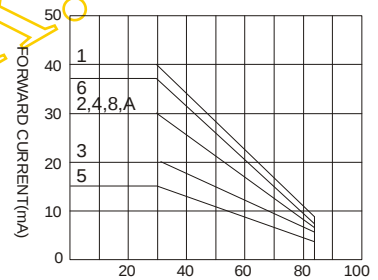
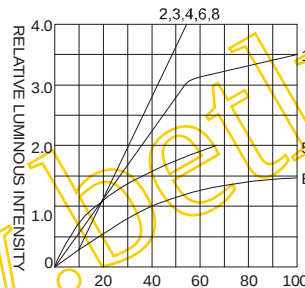
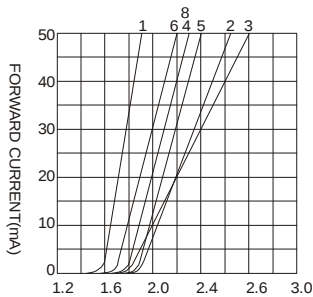
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Typical electrical-optical characteristics curves:



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



NOTE: 25°C free air temperature unless otherwise specified