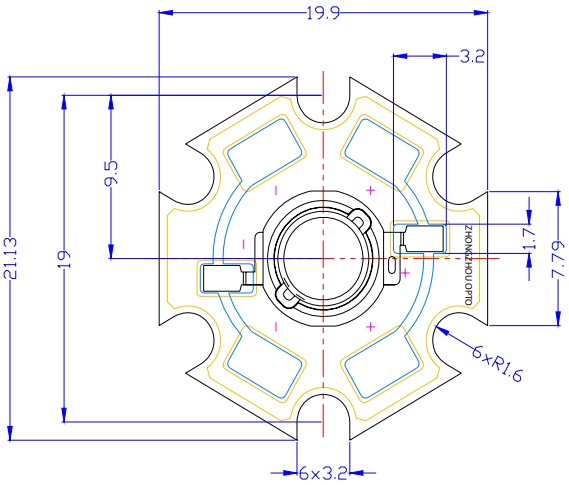
LED 3W AMARILLO

Pb
Free

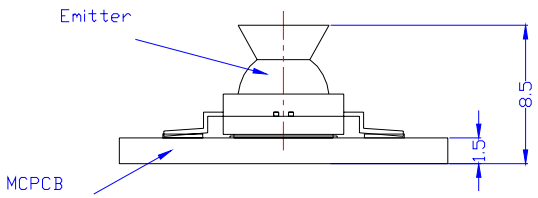
CUSTOMER APPOVED SIGNATURES	SALES APPROVED	APPROVED BY	CHECKED BY	PREPARED BY

Mechanical Dimensions

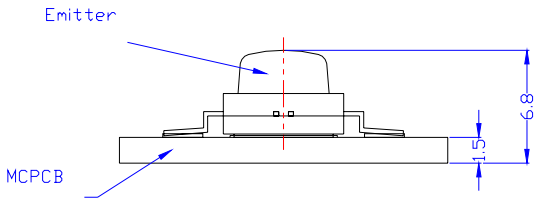
Lambertian



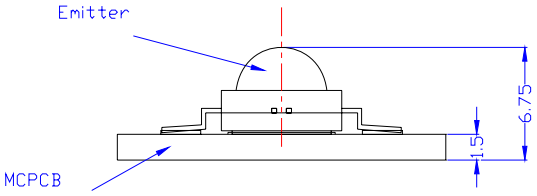
Side emitting



Batwing



Lambertian



Notes:

1. All dimensions are in millimeters.
2. All dimensions without tolerances are for reference only.
3. The package material of the body is heat-resistance polymer, and the plating material of the lead frame is Ag.

1. Typical Electrical & Optical Characteristics at I_F=° 350mA, T_A = 25

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Luminous Flux	Φ_V	-	75	-	lm
Dominant Wavelength	w_D	-	592	-	nm
CRI	Ra	-	80	-	-
Forward Voltage	V_F	-	2.5	-	V
View Angle	2Θ 1/2	Lambertian		140°	deg.
Thermal resistance	R_{J-B}	18			/W

2. Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I_F	1000	mA
Power Dissipation	P_D	3	W
Junction Temperature	T_J	125	
Operating Temperature	T_{opr}	-30~100	
Storage Temperature	T_{stg}	-30~120	
ESD Sensitivity	-	1000	V HBM

Notes:

1. The measured value is tested by an integrator system.
2. Tolerance of measurement of luminous flux ±15%
3. Tolerance of measurement of CCT ±5%
4. Tolerance of measurement of forward voltage ±0.05V
5. R is measured with an Xpower Star PCB.
6. Do not drive at rated current more than 5 sec. without heatsink for Xpower emitter series.

Wavelength Characteristics, T_A=25℃

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

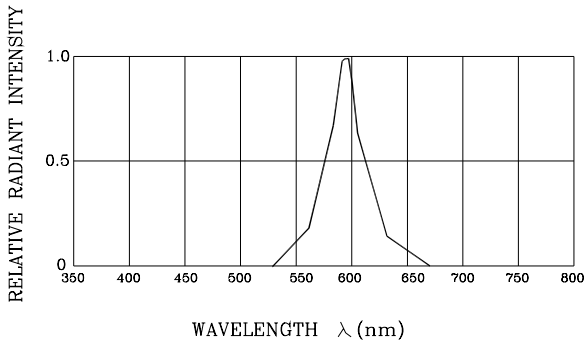


Fig.2 FORWARD CURRENT DERATING CURVE

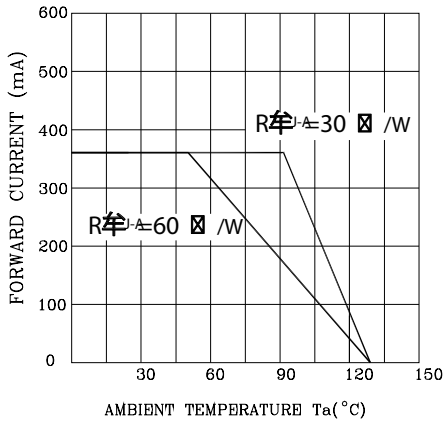


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

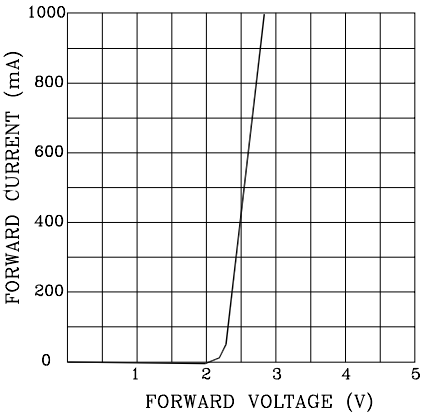


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

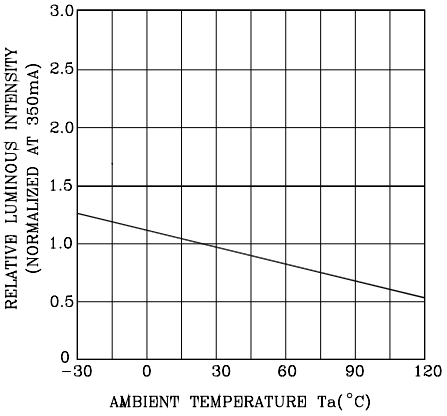


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT (at Tj=25°C)

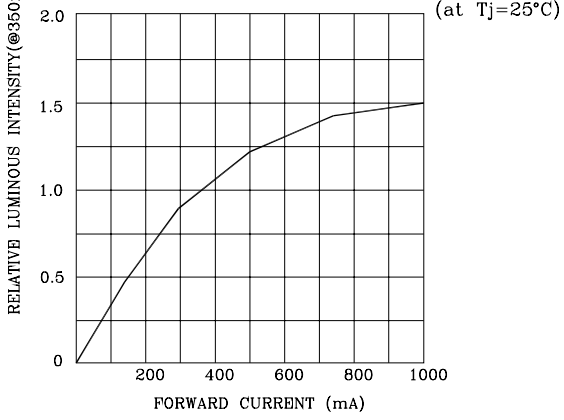


Fig.6 RADIATION DIAGRAM