
LED 3W BLANCO CALIDO



 ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES



CUSTOMER APPROVED SIGNATURES	SALES APPROVED	APPROVED BY	CHECKED BY	PREPARED BY

Typical Electrical & Optical Characteristics at $I_F=700\text{mA}$, $T_A = 25^\circ\text{C}$

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Luminous Flux	Φ_V	-	95	-	lm
Correlated Color Temperature	CCT	-	3500	-	K
Forward Voltage	V_F	-	3.4	-	V
View Angle	$2\theta_{1/2}$	Lambertian		140	deg.
Thermal resistance	R_{J-B}	18			$^\circ\text{C}/\text{W}$

1. Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I_F	1000	mA
Power Dissipation	P_D	3	W
Junction Temperature	T_J	125	$^\circ\text{C}$
Operating Temperature	T_{opr}	-30~80	$^\circ\text{C}$
Storage Temperature	T_{stg}	-30~120	$^\circ\text{C}$
ESD Sensitivity	-	1000	V HBM

Notes:

1. The measured value is tested by an integrator system.
2. Tolerance of measurement of luminous flux $\pm 15\%$
3. Tolerance of measurement of CCT $\pm 5\%$
4. Tolerance of measurement of forward voltage $\pm 0.05\text{V}$
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, $T_A=25^\circ\text{C}$

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

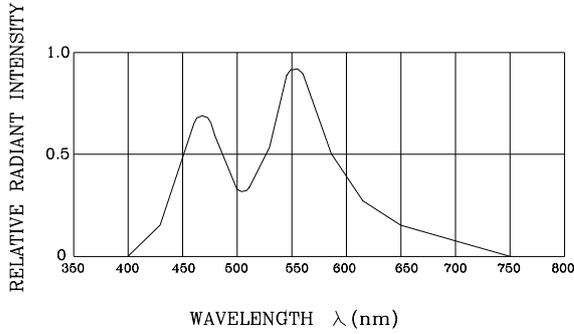


Fig.2 FORWARD CURRENT DERATING CURVE

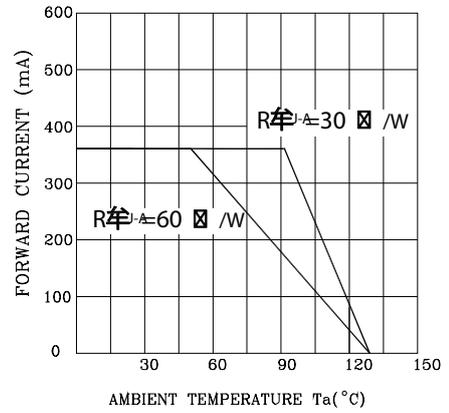


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

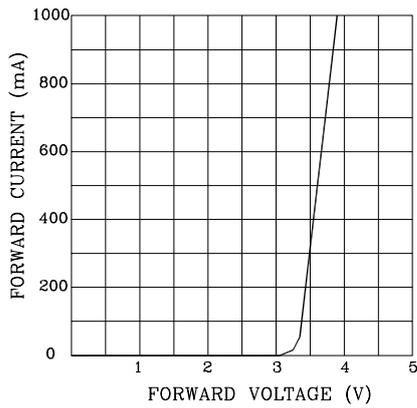


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

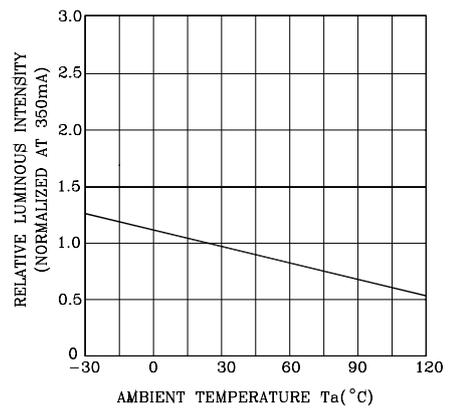


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT (at $T_j=25^\circ\text{C}$)

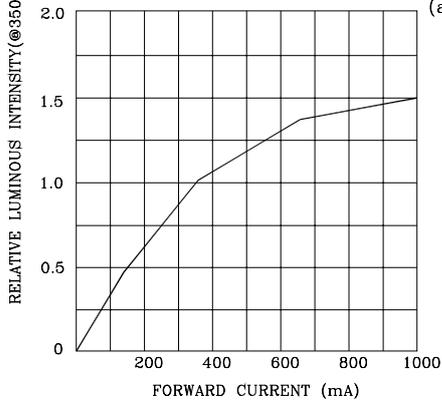


Fig.6 RADIATION DIAGRAM

