AMC HighTech Lighting Solutions

LHP-5050-5000-1-365

Specification

HiPower LED 2100mW, white, Rev. 1.0 (Feb. 2020)

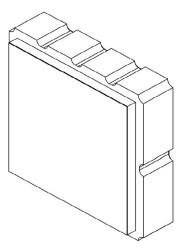
Features

- ✔ CRI Ra 99 (typ.)
- ✓ emitted spectrum 360nm 1000nm+
- ✓ Po= 84mW(typ.)
- ✓ operating temperature range -30 to 85°C
- ✔ RoHS-compliant
- exication wavelength 365nm
- ✓ ceramic package with sapphire glass lens
- ✓ chip size 1100µm * 1100µm

Application

- microscope
- spectroscopy
- laboratory



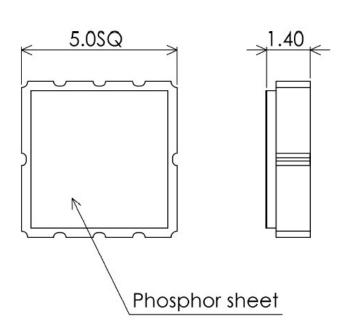


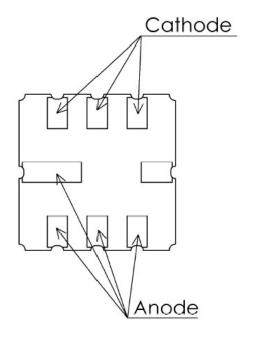


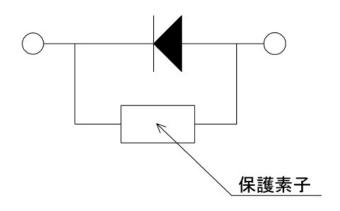
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Dimensions









Specification

Maximum Ratings (Tc=25℃)

Parameter	Symbol	Values	Unit
Power Dissipation	PD	2100	mW
Forward Current	lF	500	mA
Pulse Forward Current	I _{FP}	1000	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	125	°C
Operating Temperature	T _{opr}	-30~85	°C
Storage Temperature	T _{stg}	-40~100	°C
Thermal Resistance	Rthjs	10	°C/W

^{**}Pulse Forward Current Condition: Duty 1% and Pulse Width=1ms.

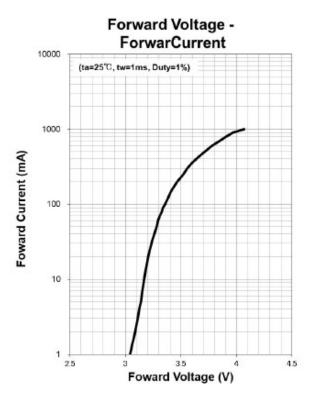
Optical and Electrical Characteristics (Tc=25°C)

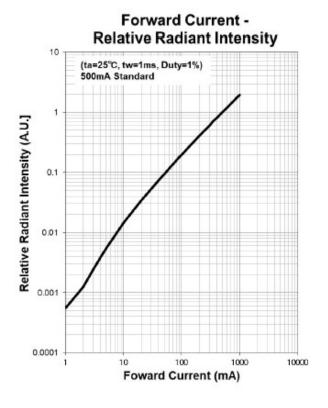
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage	VF		3.7	4.2	V	I _F =500mA
	V _{FP}		4.1		V	I _{FP} =1000mA
Radiated Power	Po -		84		mW	I _F =500mA
			190		mW	I _{FP} =1000mA
Excitation wavelength	λ		365		nm	I==500mA
Viewing Half Angle	θ 1/2		48		deg	I _F =100mA

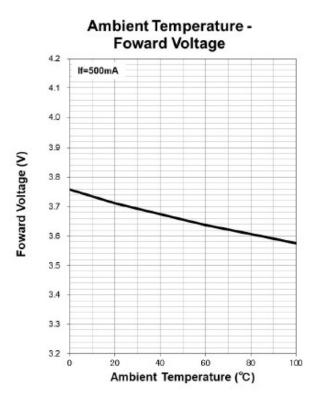


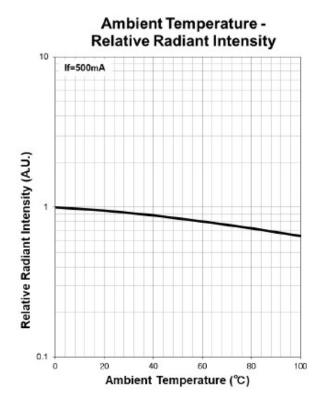
[%]Soldering condition: Soldering condition must be completed with 10 seconds at below 260℃

Electrical and optical characteristics



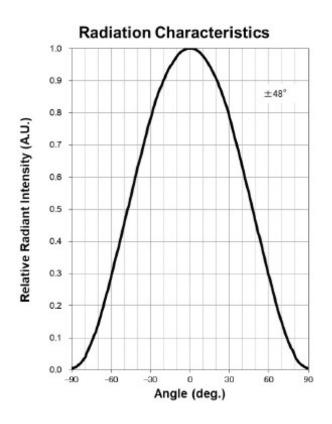


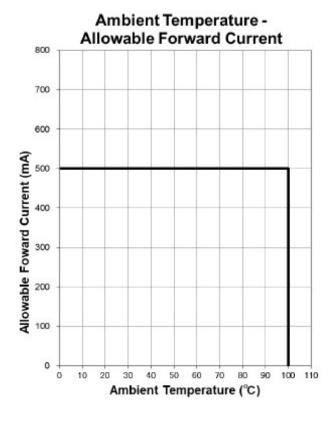


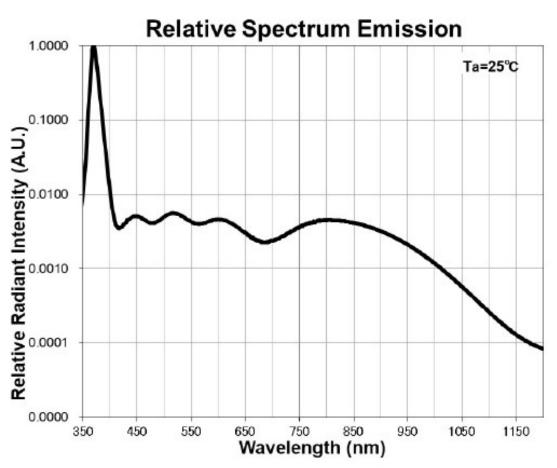




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Handling precautions



Important:

Silicone surface is fragile!

Any pressure on it can cause total damage of LED

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