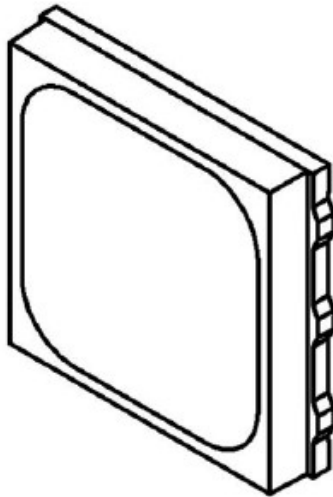


Technical Datasheet

LHP-5050-5000-365-1

Rev. 1.6 July 2025



Features

- Chip size: 1.05×1.05mm
- Number of Chips: 1pc
- Excitation Wavelength: 365nm
- Optical efficiency 330-1200nm (typ.) : 293mW
- Optical efficiency 420-1200nm (typ.) : 41mW
- Viewing half angle : 62°
- Package : SMD Resin package
- Lens : Silicone Resin
- Phosphor-containing silicone resin

Maximum Ratings (Tc=25°C)

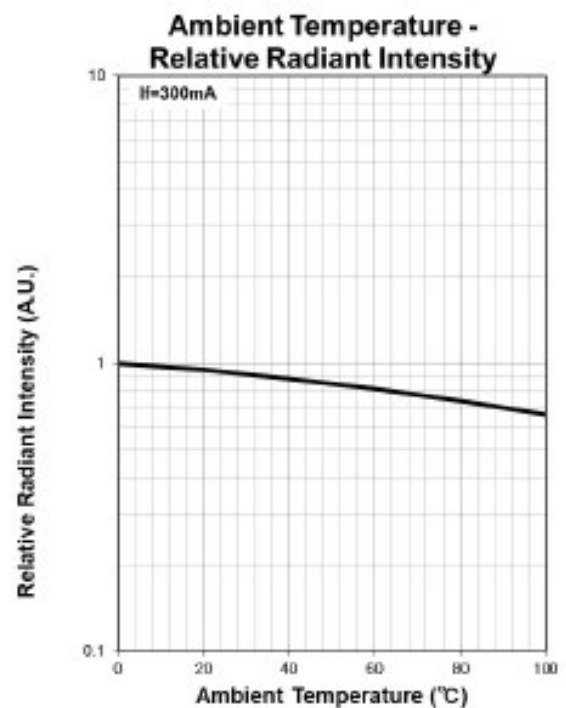
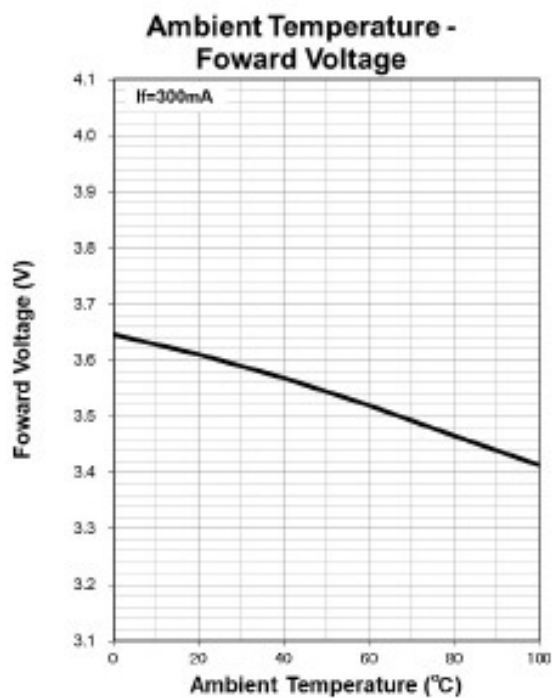
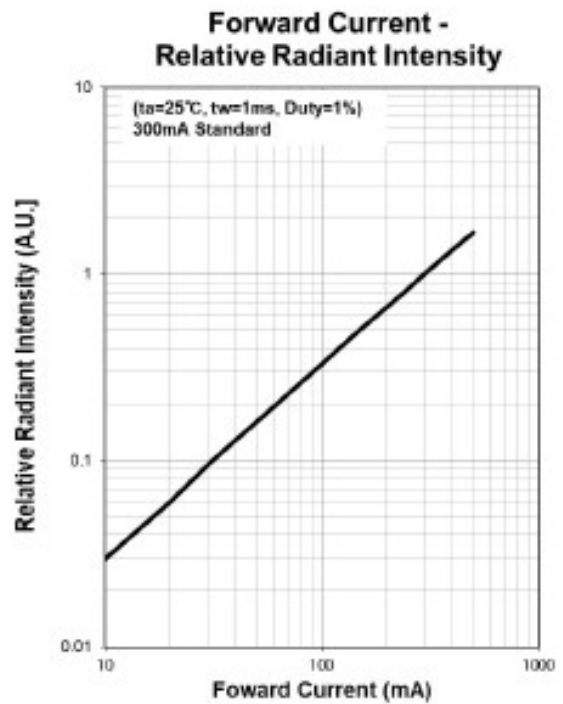
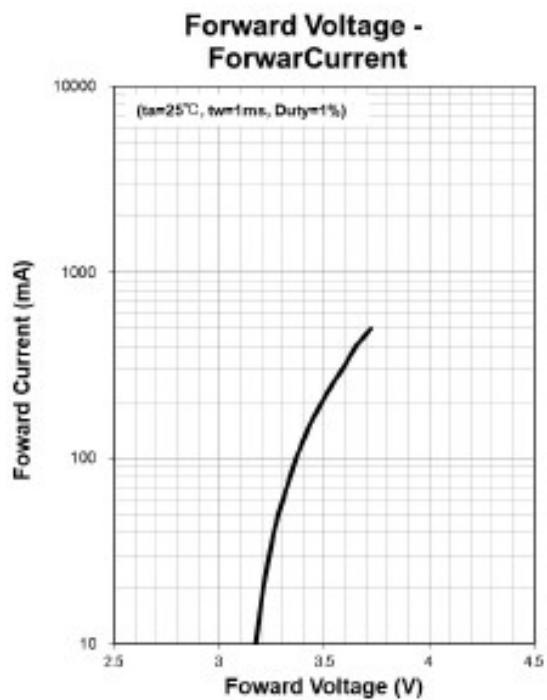
Parameter	Symbol	Values	Unit
Power Dissipation	P _D	1230	mW
Forward Current	I _F	300	mA
Pulse Forward Current	I _{FP}	500	mA
Reverse Voltage	V _R	5	V
Junction Temperature	T _j	125	°C
Operating Temperature	T _{opr}	-30~85	°C
Storage Temperature	T _{stg}	-40~100	°C
Thermal Resistance	R _{thjs}	6	°C/W

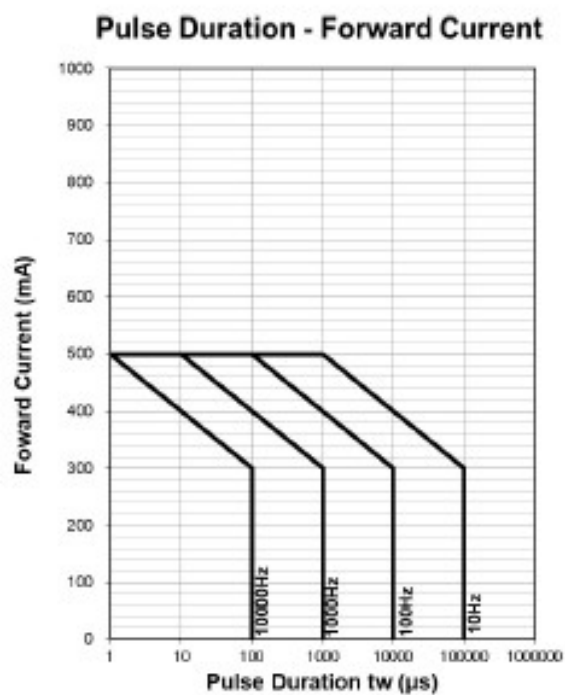
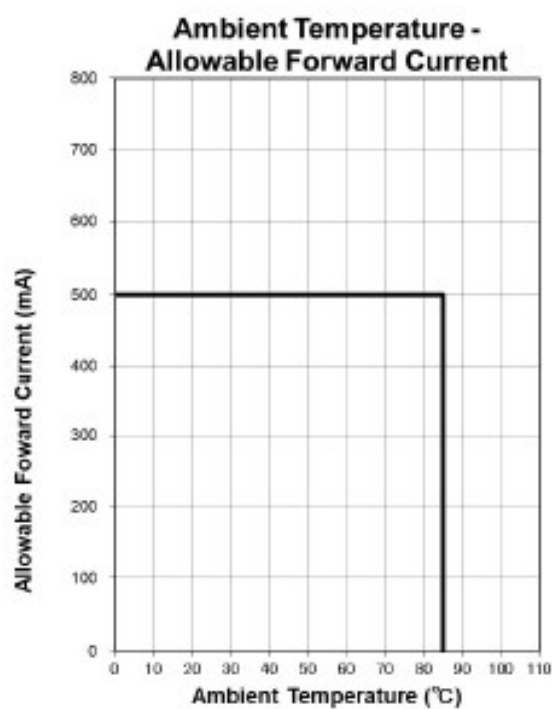
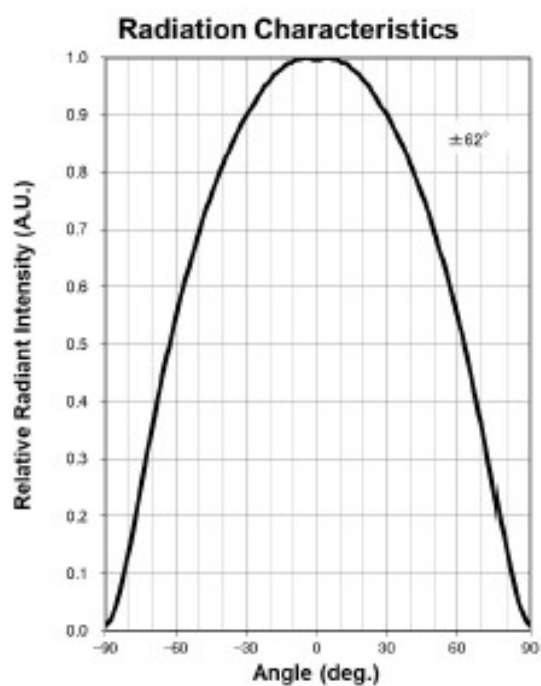
※Pulse Forward Current Condition : Duty 1% and Pulse Width=1ms.

※Soldering condition : Soldering condition must be completed with 5 seconds at below 260°C

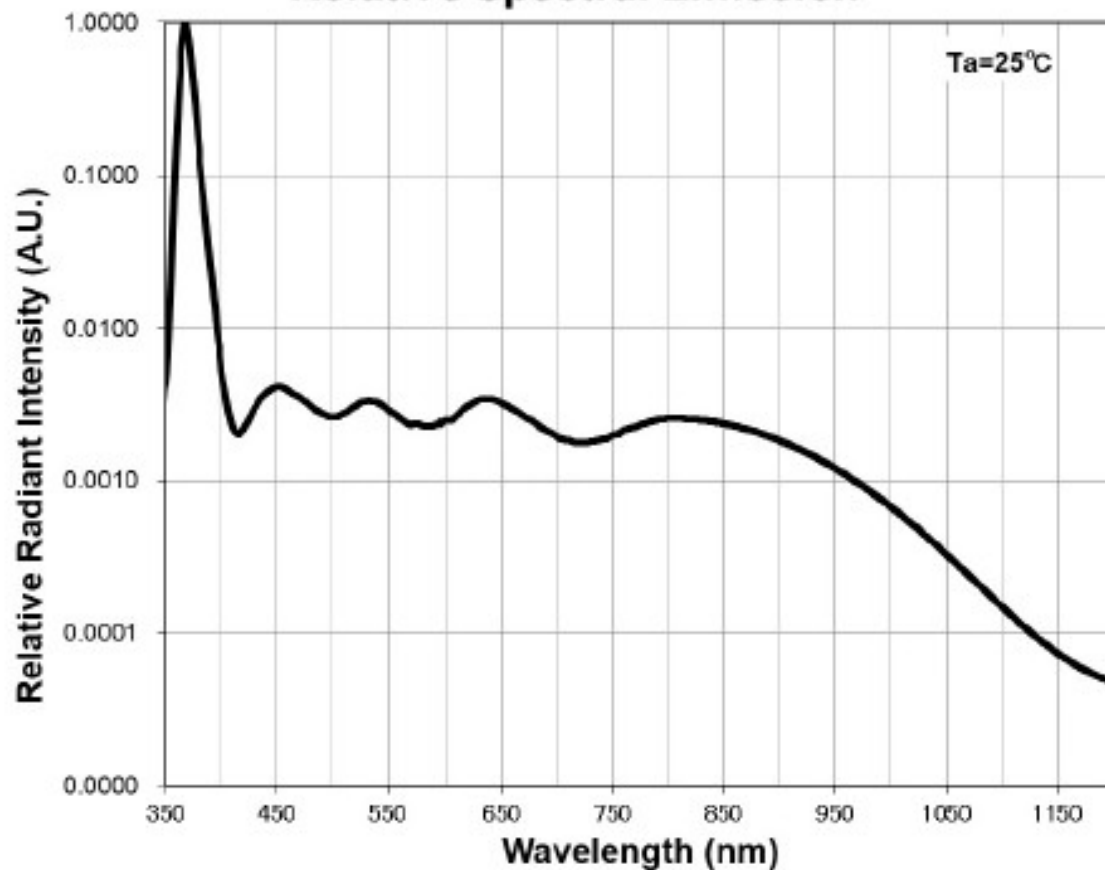
Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V _F		3.6	4.1	V	I _F =300mA
	V _{FP}		3.9		V	I _{FP} =500mA
Radiated Power(330-1200nm)	P _O		293		mW	I _F =300mA
			490		mW	I _{FP} =500mA
Radiated Power(420-1200nm)	P _O		41		mW	I _F =300mA
			60		mW	I _{FP} =500mA
Excitation wavelength	λ		365		nm	I _F =300mA
Viewing Half Angle	θ 1/2		62		deg	I _F =100mA

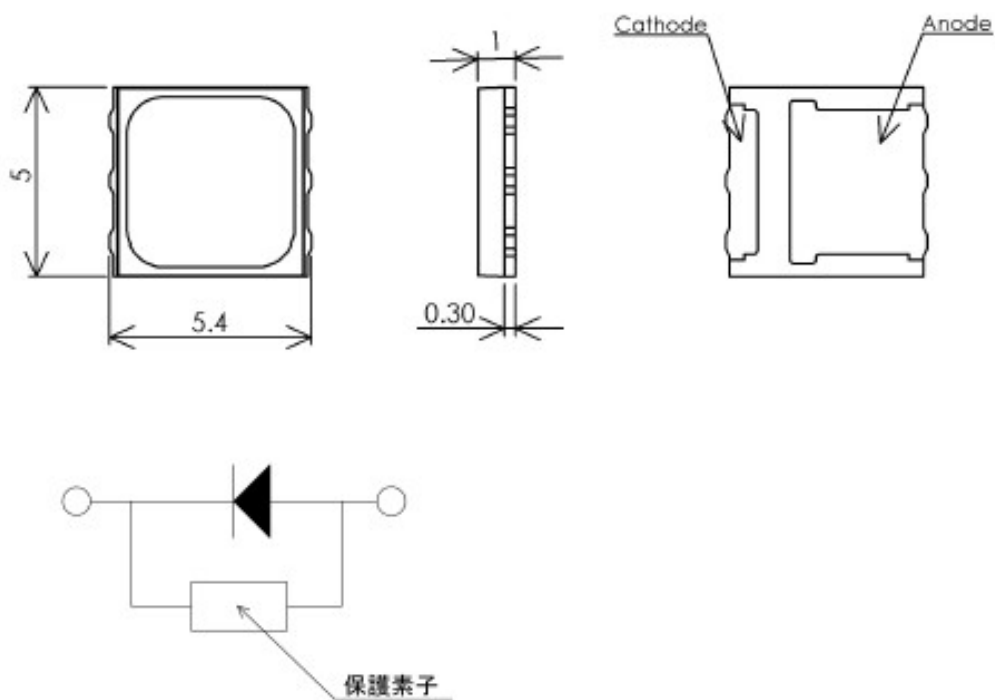




Relative Spectral Emission



Outline and Internal Circuit



Handling precautions



Important:

ATTENTION!

The LED emits strong UV-radiation!

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