
SPECIFICATION FOR APPROVAL

★ Commodity: 5W High Power LED

★ Model No: WSD-HP5A140R150-01

★ Emission Color: Red

★ Lens Appearance: Water Clear

★ Quality & Safety Certification: RoHS

CUSTOMER APPROVED BY	DATE

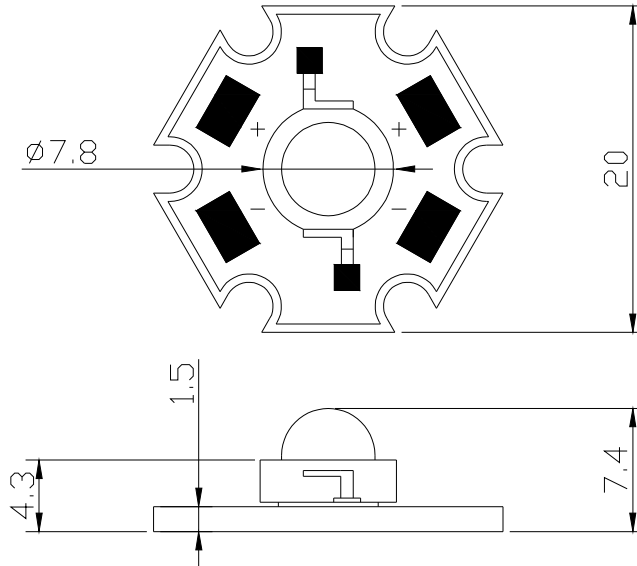
APPROVED	DRAWER
Peng	Wang

● **Features**

- More energy efficient than incandescent and most halogen lamps.
- Long operating life.

- . Low forward voltage operated.
- . Instant light.
- . No UV.

● **Outline Dimensions**



Notes

- 1: All dimensions are in millimeters.
- 2: Tolerance is ± 0.25 mm unless otherwise specified.

● **Solute Maximum Ratings ($T_a=25^\circ\text{C}$)**

Parameter	Symbol	Rating	Unit
Power dissipation	P _d	5.0	W
Continuous forward current	I _F	1600	mA
Peak forward current	I _{FP}	3500	mA
Reverse voltage	V _R	16	V
Operating temperature range	T _{opr}	-20 ~ 80	□
Storage temperature range	T _{stg}	-40 ~ 85	□

● **Electrical/Optical Characteristics (Ta=25□)**

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Luminous flux	φ	I _F =1600mA	140	150	160	Lm
Viewing angle	2θ _{1/2}	I _F =1600mA		140		deg
Dominant wavelength	λ _D	I _F =1600mA	620	625	630	nm
Forward voltage	V _F	I _F =1600mA	2.2	2.6	3.0	V
Reverse current	I _R	V _R =16V			20	uA

● **Typical Electrical/Optical Characteristics Curve (Ta=25□)**

Fig1: Relative Intensity VS Wavelength

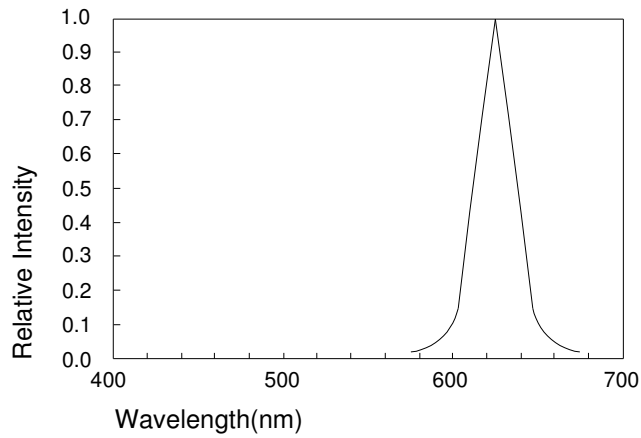


Fig2: Forward Current VS Forward Voltage

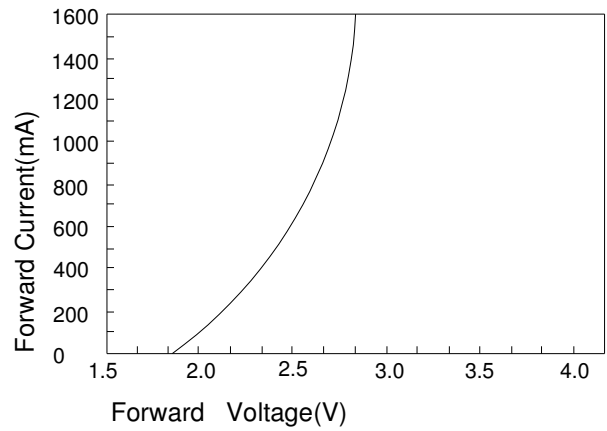


Fig3: Relative Intensity VS Forward Current

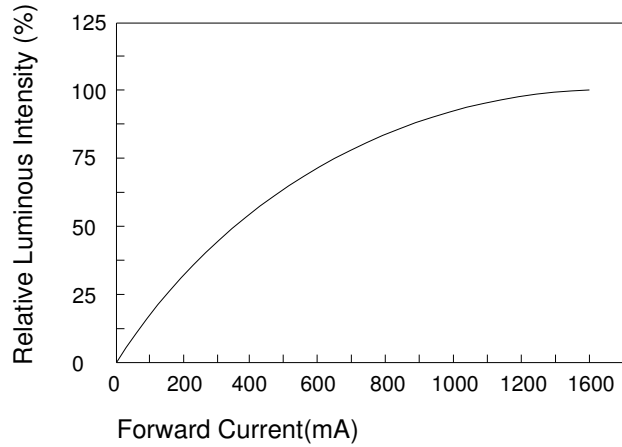


Fig4: Forward Voltage VS Temperature

