

SPECIFICATION FOR APPROVAL

★ Commodity: 5050 SMD

★ Model No: 5050-CW6000

★ Emission Color: Cool White

★ Lens Appearance: Yellow

★ Quality & Safety Certification: RoHS

CUSTOMER APPROVED BY	DATE

- . Chip Material: InGaN.
- . Low Power Consumption.
- . High Efficiency.
- . Low Current Requirement.

- ☐ Backlight.
- ☐ Traffic Lights.
- ☐ Lights.
- ☐ LED Display.
- ☐ Other Electric Products

Technical drawing of a square component with a circular feature. The drawing includes a top view and a side view. The top view shows a square with a side length of 5.0. Inside the square is a circular feature with a diameter of 4.1. The circular feature has a central rectangular slot with a width of 1.6. The side view shows the component's profile with a height of 4.1 and a base width of 1.6. The drawing is labeled with dimensions and a part number 1.6.

1: All dimensions are in millimeters.
2: Tolerance is $\pm 0.1\text{mm}$ unless otherwise specified.

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	3X120	mW
Forward Current	I _F	3X20	mA
Peak Forward Current* ¹	I _{FP}	3X100	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{opr}	-20~80	°C
Storage Temperature Range	T _{stg}	-40~85	°C
Soldering Temperature	T _{sol}	260 (for 5 seconds)	°C

● Electrical And Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=3 \times 20\text{mA}$	3.0	3.2	3.4	V
Luminous Intensity	I_V	$I_F=3 \times 20\text{mA}$	5000	6000	7000	mcd
Reverse Current	I_R	$V_R=5\text{V}$	-		10	μA
Dominant Wavelength	λ_D	$I_F=3 \times 20\text{mA}$		Cool White		nm
Color Temperature	CCT	$I_F=3 \times 20\text{mA}$	8000		10000	K
Viewing Angle	$2\theta_{1/2}$	$I_F=3 \times 20\text{mA}$		120		deg

● Typical Electro-Optical Characteristics Curves

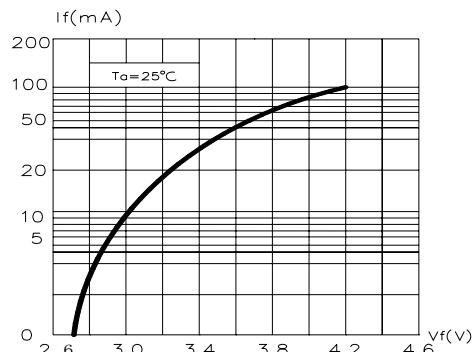


Fig.1 Forward Current vs. Forward Voltage

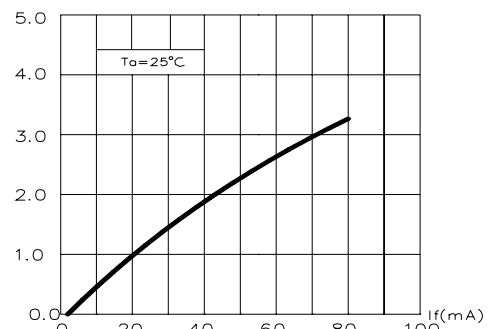


Fig.2 Relative Luminous Intensity vs. Forward Current

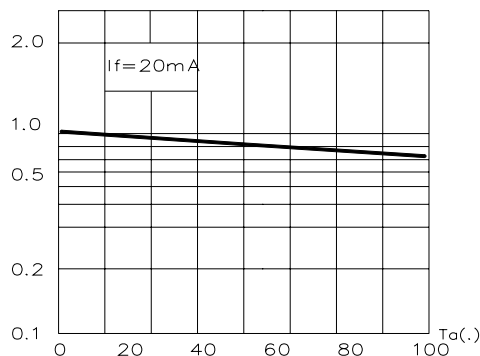


Fig.3 Relative Luminous Intensity vs. Ambient Temperature

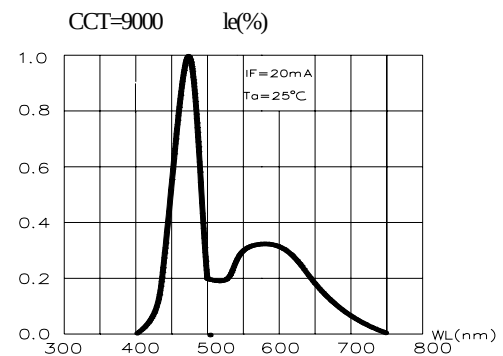


Fig.4 Intensity vs. Wavelength.

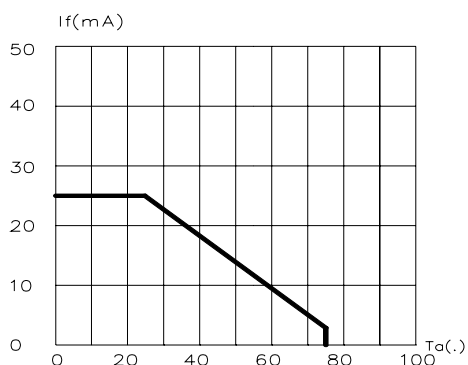


Fig.5 Maximum Forward Current vs. Ambient Temperature

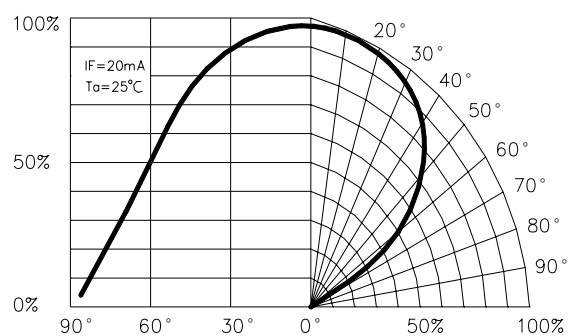


Fig.6 Relative Luminous Intensity vs. Radiation Angle