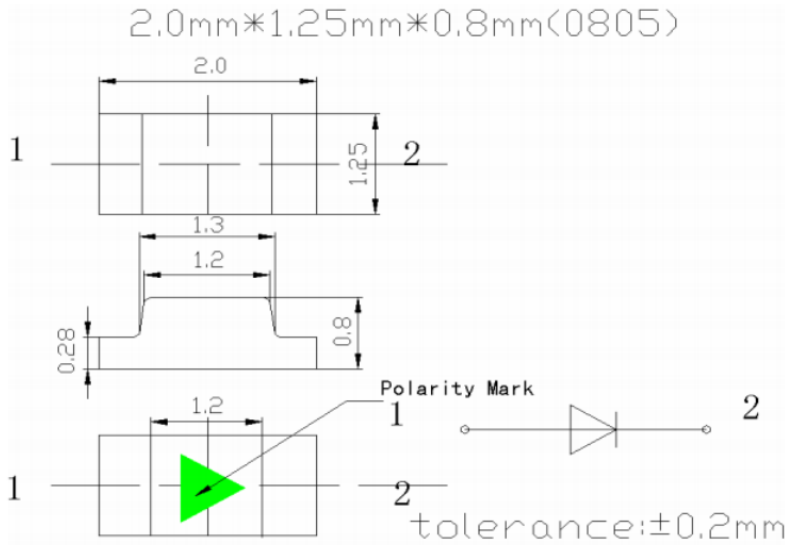


Package Dimension



Notes:  
All dimensions are in millimeter[unit];  
Tolerance is±0.1mm(0.004") unless other specified;  
Specifications are subject to change without notice.

Part No.	Emitted Color	Lens Color	Chip Material
SE-SMD0805-WWD5	Warm White	Yellow	InGaN

Electrical / Optical Characteristics (Ta=25°C)

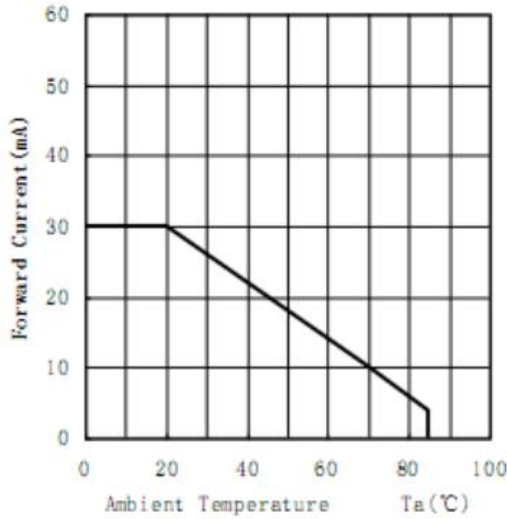
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA	2.8	-	3.7	V
Luminous Intensity	IV	IF=20mA	300	-	500	mcd
Color Temperature	Tc	IF=20mA	2700	-	3300	K
Viewing Angle	2θ1/2	IF=20mA	-	140	-	deg
Reverse Current	IR	VR=5V	-	-	10	uA

Absolute Maximum Ratings (Ta=25°C)

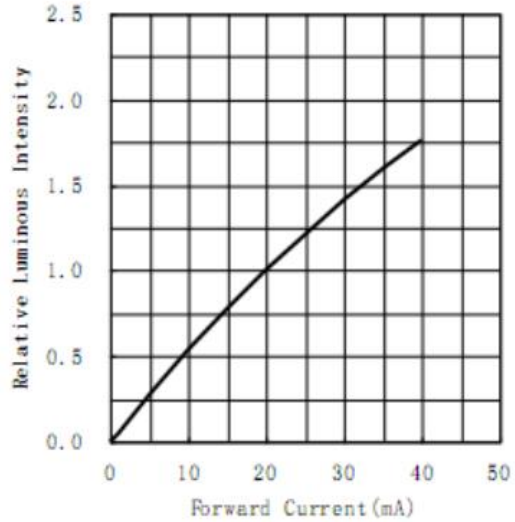
Item	Symbol	Maximum	Unit
Power Dissipation	PD	111	mW
Continuous Forward Current	IF max	30	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFP	125	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	°C
Lead Solder Temperature	Tsol	260°C for 3 seconds	

Typical Electro – Optical Characteristics Curves

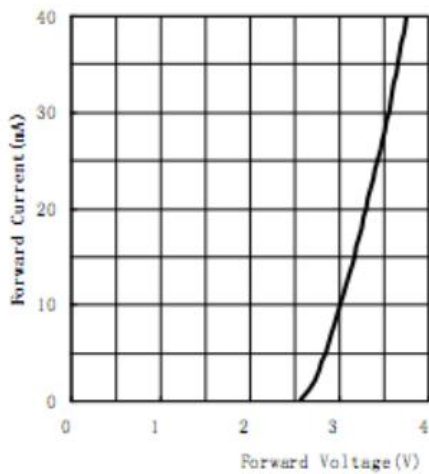
Ambient Temperature VS. Forward Current



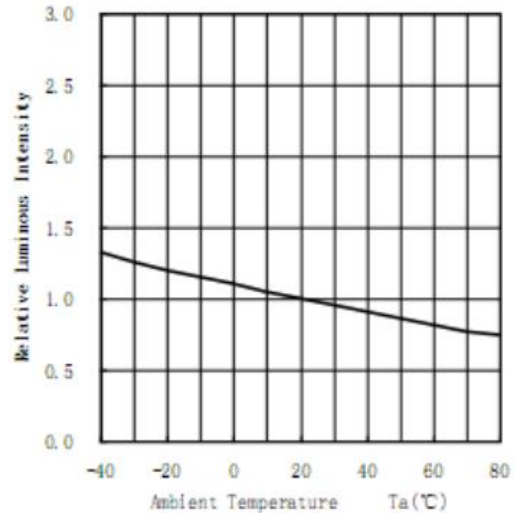
Forward Current VS. Relative Intensity



Forward Voltage VS. Forward Current



Ambient Temperature VS. Relative Intensity



Relative spectral emission

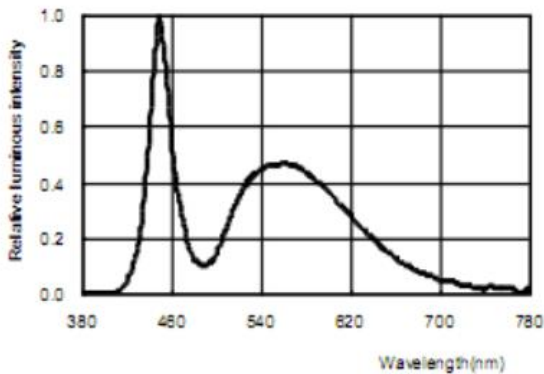
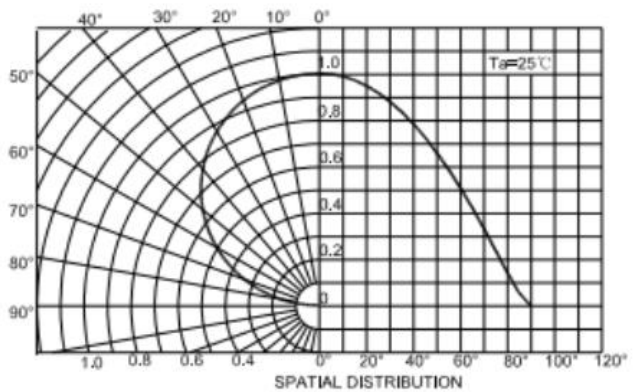


Diagram characteristics of radiation



**Reliability Test Items and Conditions**

No.	Item	Test Condition	Test Hr/cycle/time	Sample QTY	Ac/Re
1	Reflow	TEMP:260±5°C; Min.5Sec	6min	22pcs	0/1
2	Temperature Cycle	H:+100°C 15mins To(5mins) L:-40°C 15mins	300 cycles	22pcs	0/1
3	Thermal Shock	H:+100°C 15mins To(5mins) L:-40°C 15mins	100 cycles	22pcs	0/1
4	Low Temperature Storage	TEMP:-40°C	1000hrs	22pcs	0/1
5	DC Operating Life	IF=20mA	1000hrs	22pcs	0/1
6	High Temperature	85°C	1000hrs	22pcs	0/1
7	High Humidity	R.H.=85%		22pcs	0/1

**Reflow Temp/Time**

