

Forward Current	I <sub>F</sub>	20	mA
Peak Forward Current*	I <sub>FP</sub>	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	80	mW
Electrostatic discharge	E <sub>SD</sub>	500	V
Operation Temperature	T <sub>opr</sub>	-25~+80	℃
Storage Temperature	T <sub>stg</sub>	-5~+45	℃
Lead Soldering Temperature*	T <sub>sol</sub>	Max. 260℃ for 5sec Max.	

\*I<sub>FP</sub> Conditions: Pulse Width≦10msec  
\*T<sub>sol</sub> Conditions: 3mm from the base of the epoxy bulb

■ Typical Optical/ Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	2.8	3.2	3.6	V
50% Power Angle	2θ 1/2		--	120	--	deg
Luminous Intensity	I <sub>v</sub>		450	480	--	mcd
Prpcp Wavelength	λD		462.5	--	465	nm
Recommend Forward Current	I <sub>F</sub> (rec)	--	--	--	20	mA
Reverse Current	I <sub>R</sub>	V <sub>r</sub> =5V	--	--	10	uA

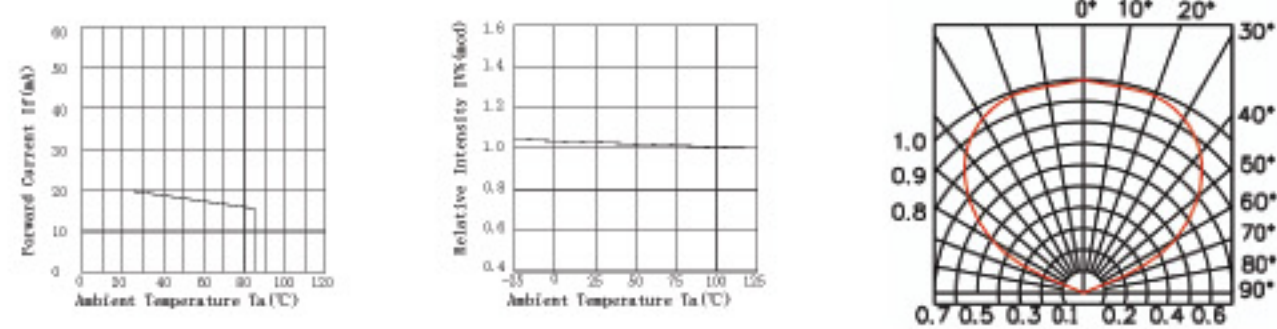
- Notes:
- 1.Absolute maximum ratings Ta=25℃.
  - 2.Tolerance of measurement of forward voltage±0.1V.
  - 3.Tolerance of measurement of peak Wavelength±2.0nm.
  - 4.Tolerance of measurement of luminous intensity±15%.
  - 5.Tolerance of measurement of angle intensity±15%.

■ Reliability Performance

Test Items And Result

Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	AC/RE
Life Test	Room Temperature DC Operating Life Test	Ta=25℃±5℃, I <sub>F</sub> =20mA	1000hrs	22 pcs	0/1
Environment Test	Thermal Shock Test	-10℃±5℃→+100℃±5℃ 5min. 10sec. 5min.	50cycles	22 pcs	0/1
	Temperature Cycle Test	-40℃±5℃→+85℃±5℃ 30min. 5min. 30min.	50cycles	22 pcs	0/1
	High Temperature & High Humidity Test	Ta=85℃±5℃ RH =85%±0.5 %RH	1000hrs	22 pcs	0/1
	High Temperature Storage	Ta=100℃±5℃	1000hrs	22 pcs	0/1
	Low Temperature Storage	Ta=-55℃±5℃	1000hrs	22 pcs	0/1
Mechanical Test	Resistance to Soldering Heat	Ta=230℃±5℃	5sec.	22 pcs	0/1
	Lead Integrity	Load 2.5N(0.25kgf) 0° ~ 90° ~0°	3times	22 pcs	0/1

Forward Current vs. Ambient Temperature      Relative Intensity vs. Ambient Temperature



Forward Current vs.Forward Voltage      Forward Voltage vs. Ambient Temperature      Luminous Spectrum(Ta=25℃)      SPECTRAL RADIANCE

