ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

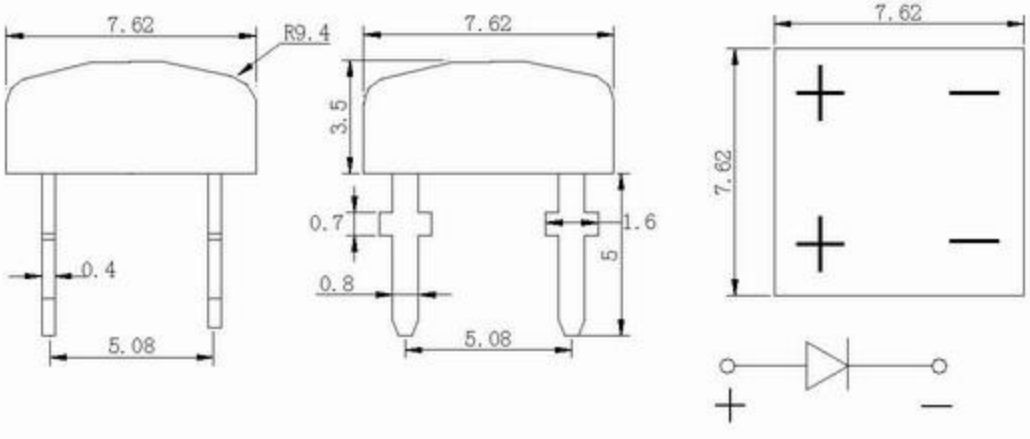
Features

- Super Flux LED.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 60PCS / PIPE.

Package Dimensions

Description

This devices are made with TS InGaN.



Torlerance	Dimension Torlerance (UNIT:mm)			
Grade	0.5~3	3~6	6~30	30~120
Medium(m)	±0.1	±0.2	±0.3	±0.5

Chip		Lens Color
Material	Emitting Color	Water Clear
InGaN	Blue	

■Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	20	mA
Peak Forward Current*	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	80	mW
Electrostatic discharge	E_{SD}	800	V
Operation Temperature	T_{opr}	-30∽+80	℃
Storage Temperature	T_{stg}	-30∽+80	℃
Lead Soldering Temperature*	T_{sol}	Max. 260℃ for 5sec Max.	

*I_{FP} Conditions: Pulse Width≤10msec

*T_{sol} Conditions: 3mm from the base of the epoxy bulb

■ Typical Optical/ Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F=20mA	2.8	3.2	3.6	V
50% Power Angle	2θ 1/2		--	160	--	deg
Luminous Intensity	Iv		180	220	--	mcd
Luminous Flux	Φ V		--	0.5	--	lm
Prcp Wavelength	λD		465	--	470	nm
Recommend Forward Current	I_F(rec)	--	--	--	20	mA
Reverse Current	I_R	Vr=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%.

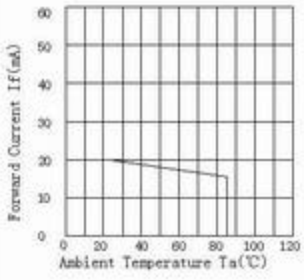
■ Reliability Performance

Test Items And Result

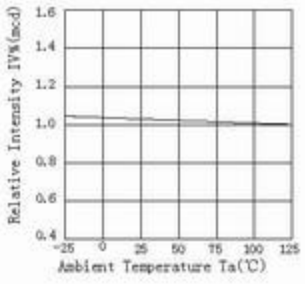
Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	AC/RE
Life Test	Room Temperature DC Operating Life Test	Ta=25℃±5℃, IF=20mA	1000hrs	22 pcs	0/1
Environment Test	Thermal Shock Test	-10℃±5℃←→+100℃±5℃ 5min. 10sec. 5min.	50 cycles	22 pcs	0/1
	Temperature Cycle Test	-40℃±5℃←→+85℃±5℃ 30min. 5min. 30min.	50 cycles	22 pcs	0/1
	High Temperature & High Humidity Test	Ta=85℃±5℃ RH =85%±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

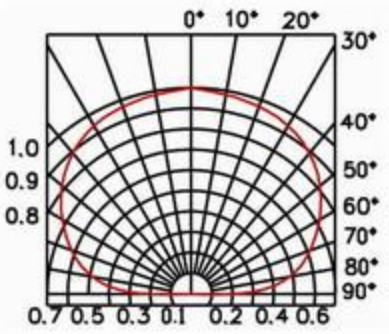
Typical Optical/Electrical Characteristics Curves
(Ta=25℃ Unless Otherwise Noted)

Forward Current vs. Ambient Temperature

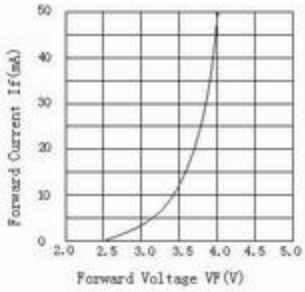


Relative Intensity vs. Ambient Temperature

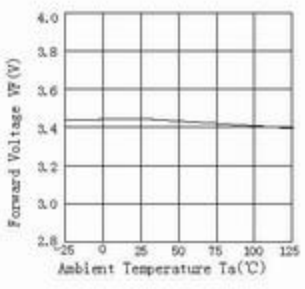




Forward Current vs. Forward Voltage



Forward Voltage vs. Ambient Temperature



Luminous Spertrum(Ta=25℃) SPECTRAL RADIANCE