

Specification for Approval

- Feature

- Ø Water clear type
- Ø 5mm standard directivity
- Ø superior weather-resistance
- Ø Peak current□ duty□ 0.1,1KHz□□ 100 mA

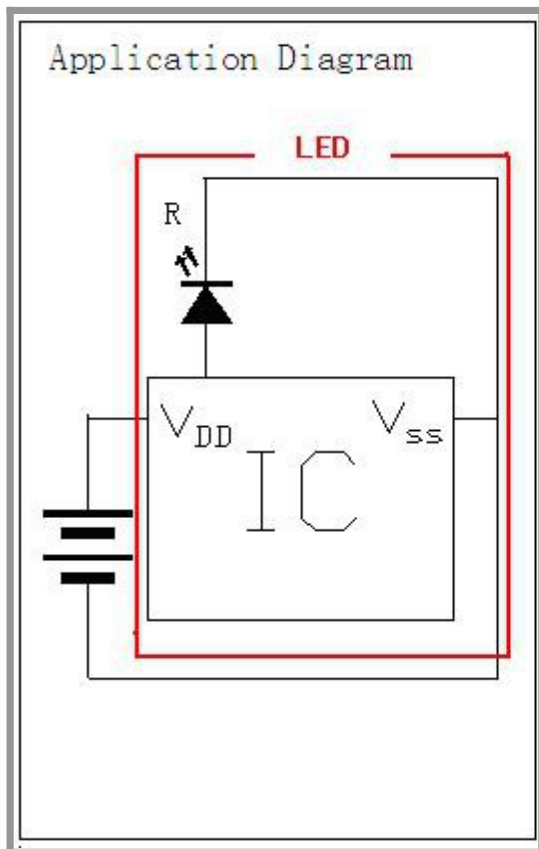
- Applications

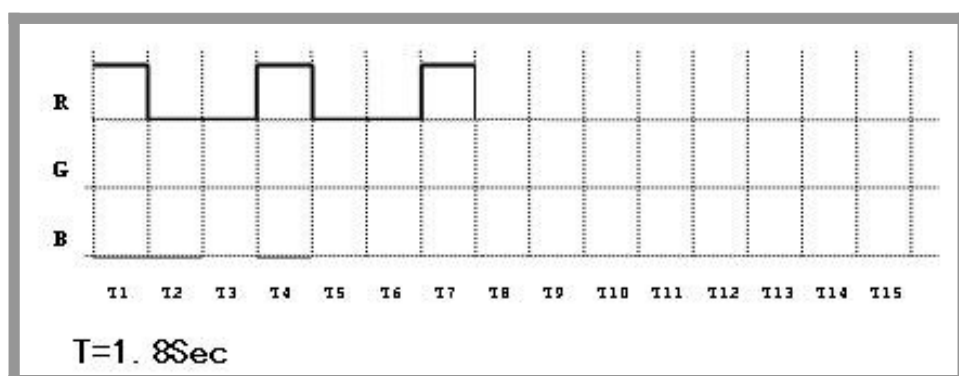
- Ø Up to electronic switch
- Ø Digital read out lamps
- Ø Audio equipment
- Ø Toys
- Ø Backlight

- Notes

1. All dimensions are in millimeter.
2. Protruded resin under flange 1.5mm Max
3. Lead spacing is measured where the lead emerge from the package.
4. lens color : Water clear.
5. Above specification may be changed without notice . Our company will reserve authority on material change for above specification.
6. These specification sheets include materials protected under copyright of SEALAND corporation.

Specification for Approval





NO:XL503320URC-DS

FLASH 5.0mm LAMP

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PART NO	CHIP	LENS COLOR
	MATERIAL	
XL503320URGBC-KS	IC +InGaP	Water clear

Absolute Maximum Rating (Ta=25°C)

Item	Symbol	Value	Unit
DC forward current	I _F	25	mA
Pulse forward current	I _{FP}	150	mA
Power dissipation	P _D	120	mW
Operating temperature	T _{opr}	-20~+75	°C
Storage temperature	T _{stg}	-30~+80	°C
Reverse voltage	V _R	2.0	V
Sold soldering temperature	T _{sol}	260°C/3Sec	---

Plus with Max 10ms,duty ratio max1/10

Initial Electrical/Optical Characteristics (Ta=25°C)

Item	Symbol	condition	Min	Type	Max	Unit
DC forward Voltage	V _F	I=20mA	----	2.0	3.0	V
DC reverse Current	I _R	V=5V	----	----	30	μA
Dome Wavelength	☐	☐	☐	☐	☐	☐
	Red WD	I=20mA	☐	621	☐	☐
	☐	☐	☐	☐	☐	☐
	Flicker time	1.8HZ	☐	☐	☐	☐
Spectrum Radiation Bandwidth	Δλ	☐	----	28	☐	Nm
Luminous Intensity	☐	☐	☐	☐	☐	☐
	Red IV	I=20mA	300	350	400	mcd
	☐	☐	☐	☐	☐	☐
50%Power Angle	2θ1/2	I=20mA	----	----	----	deg

NOTES:

Absolute maximum ratings Ta=25°C

Tolerance of measurement of forward voltage ±0.1V

Tolerance of measurement of peak Wavelength ±2.0nm

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Reliability performance

Test items and result

Test classification	Test item	Test condionts	Test duration	□	□
Life test	Room temperature DC operating life test	Ta=25±5°C Peak current □ duty □ 0.1,1KHz□□ 100 mA	1000hrs	30pcs	0/1
Environment test	Thermal shock Test	-10±5°C←→+100±5°C 5min 10sec 5min	50cysles	30pcs	0/1
	Temperature cycle test	-40±5°C←→+85±5°C 30min 5sec 30min	50cysles	30pcs	0/1
	High temperature &High humidity test	Ta=85±5°C RH=85%±0.5%RH	1000hrs	30pcs	0/1
	High temperature storage	Ta =100±5 °C	1000hrs	30pcs	0/1
	Low temperature storage	Ta =-55±5°C	1000hrs	30pcs	0/1
Mechanical test	Resistance to soldering heat	Ta =230±5°C	5sec	30pcs	0/1

	Lead integrity	Load 2.5N(0.25KGf) 0 °C ~ 90 °C ~ 0°C	3times	30pcs	0/1
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