

Specification for Approval

NO XL302430URC-DS
FLASH 3.0mm LAMP

1 Feature

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

1 Applications

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

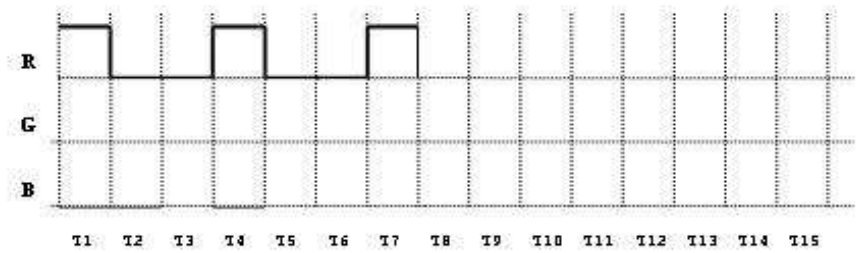
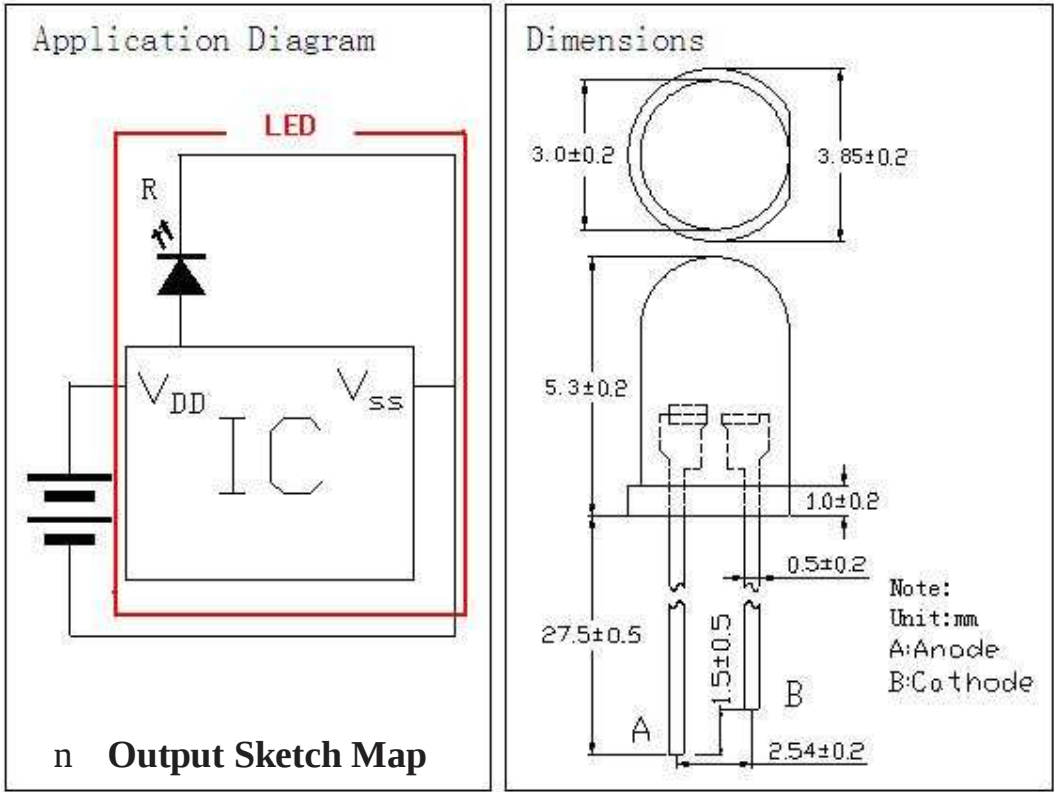


n Notes

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.

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T=1.8Sec

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

Absolute Maximum Rating

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_{OP}	-20~+75	
Storage temperature	T_{STG}	-30~+80	
Reverse voltage	V_R	3.3	V
Sold soldering temperature	T_{solder}	260 /3Sec	---

Plus with Max 10ms,duty ratio max1/10

Initial Electrical/Optical Characteristics

Item	Symbol	condition	Min	Type	Max	Unit
DC forward Voltage	V_F	I=20mA	----	3.3	5.0	V
DC reverse Current	I_R	V=5V	----	----	30	μA
Dome Wavelength	Red λ_D	I=20mA	----	621	----	Nm
Spectrum Radiation Bandwidth	Flicker time	1.8HZ				
	$\Delta\lambda$	I=20mA	----	28	----	Nm
Luminous Intensity						
	Red I_v	I=20mA	120	245	----	mcd

50%Power Angle 2θ1/2 I=20mA ---- ----- ---- deg

NOTES:

Absolute maximum ratings Ta=25

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	Sample size	AC/RE
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 temperture 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	3times	30pcs	0/1

0°C