

Technical Data Sheet

SMD Flat Lens LED: SLR2815

■ Features

- . Dominant Wavelength 622nm
- . Super brightness
- . Pb free
- . The product itself will remain within RoHS compliant version.



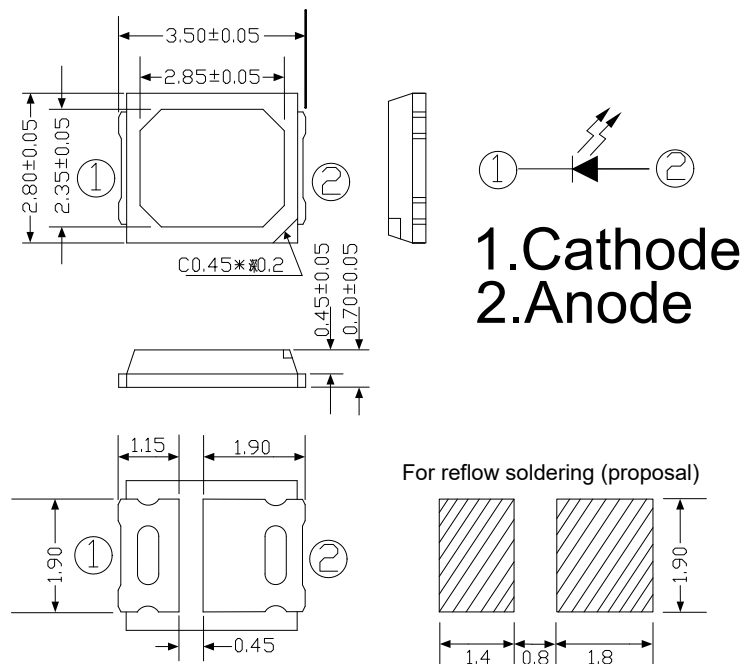
■ Descriptions

The SLR2815 is specially designed for applications requiring super brightness, A miniature flat top view lens SMD package and molded in a water clear plastic.

■ Applications

- . Security system
- . Fiber Amplifier
- . Optoelectronic switch

■ Package Dimensions



Note: 1. All dimensions are in millimeters
 2. Tolerances unless dimensions ± 0.1 mm

■ Absolute Maximum Ratings (Ta=25°C)

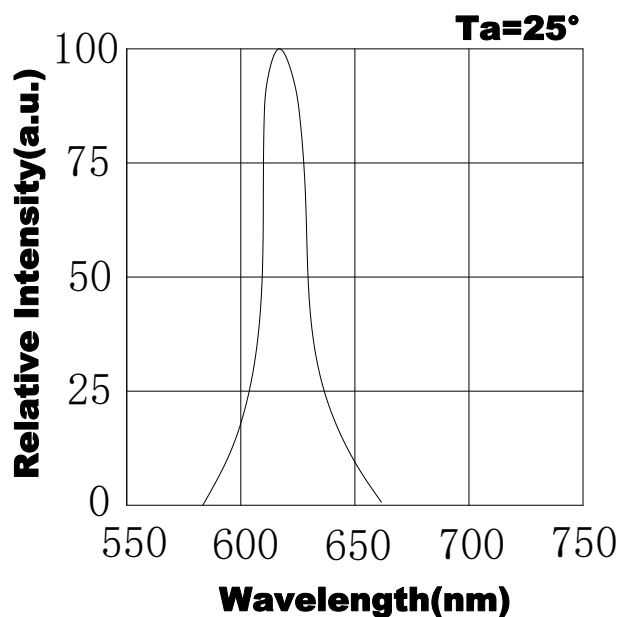
Parameter	Symbol	Rating	Units
Continuous Forward Current	I _F	70	mA
Peak Forward Current (Duty 1/10 @ 1KHZ)	I _{PF}	400	mA
Reverse Voltage	V _R	10	V
Power Dissipation	P _d	150	mW
Lead Soldering Temperature	T _{sol}	280	°C
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C

■ Electro-Optical Characteristics (Ta=25°C)

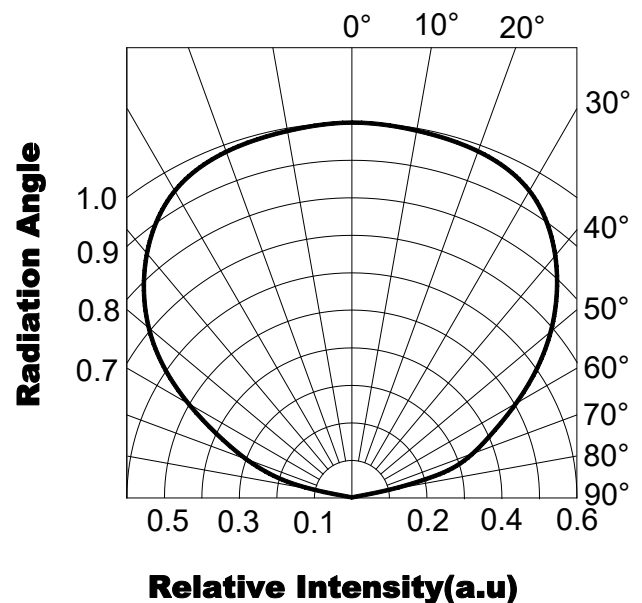
Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Intensity	I _v	I _F = 20mA	700	800	—	mcd
Viewing Angle	2θ _{1/2}	I _F = 20mA	—	120	—	deg
Dominant Wavelength	λ _d	I _F = 20mA	—	622	—	nm
Spectrum Radiation Bandwidth	Δλ	I _F = 20mA	—	20	—	nm
Forward Voltage	V _F	I _F = 20mA	1.8	2.1	2.3	V
Reverse Current	I _R	V _R = 5V	—	—	10	μA

■ Typical Electro-Optical Characteristics Curves

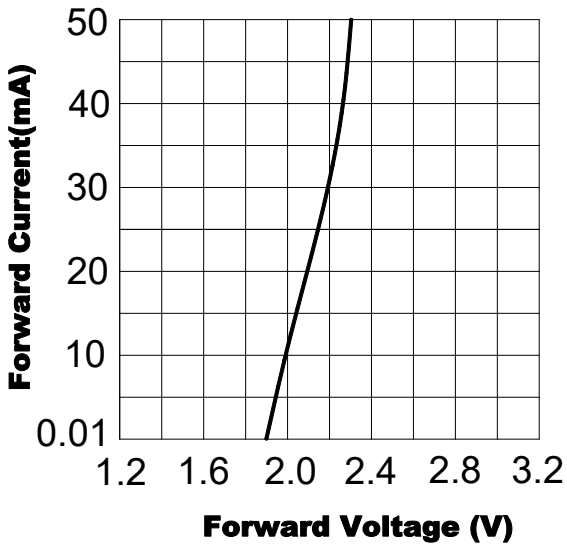
Relative Intensity vs. Wavelength (Ta=25°C)



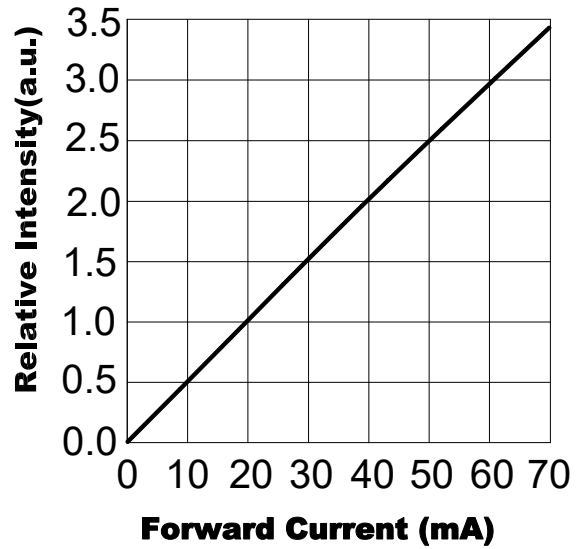
Directivity (Ta=25°C)



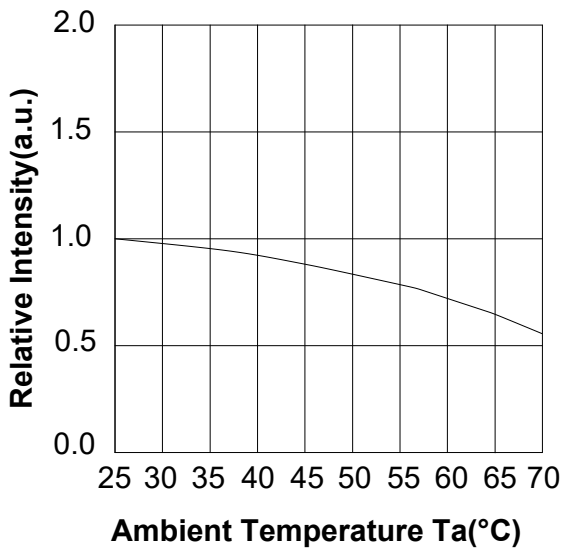
Forward Current vs. Forward Voltage (Ta=25°C)



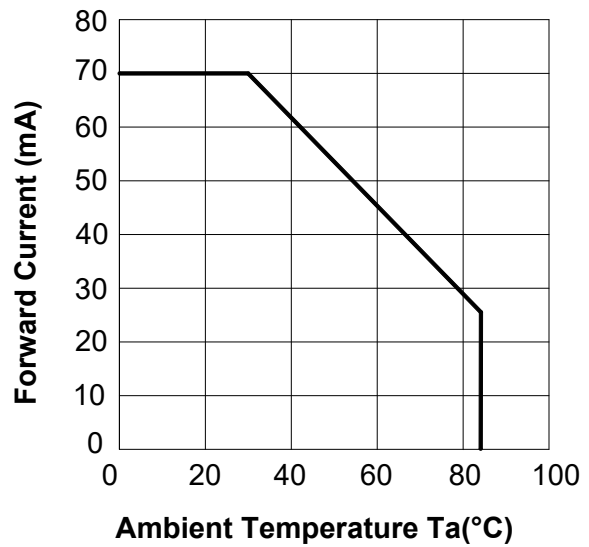
Relative Intensity vs. Forward Current (Ta=25°C)



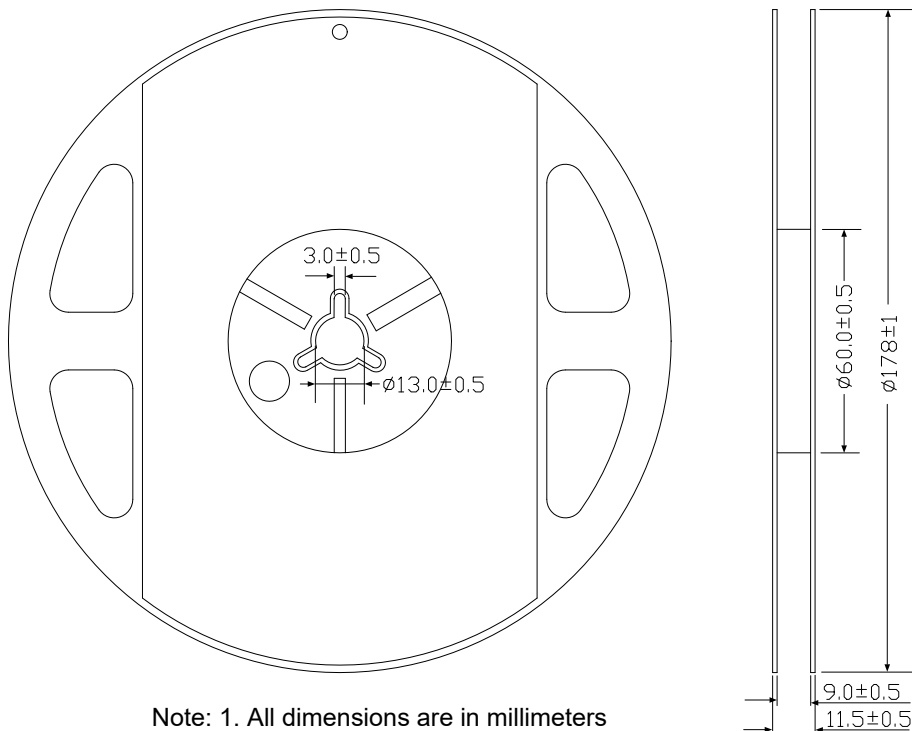
Relative Intensity vs. Ambient Temp.



Maximum Forward Current vs. Ambient Temp.

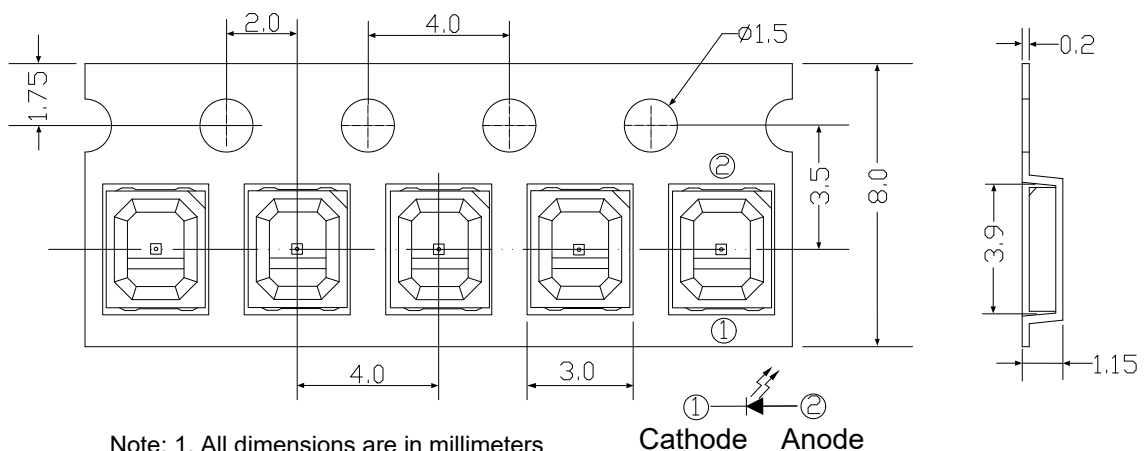


■ **Packing Dimensions**



Note: 1. All dimensions are in millimeters

■ **Carrier Tape Dimensions (Quantity: 4000 pcs/reel)**



Note: 1. All dimensions are in millimeters

2. Tolerances unless dimensions ± 0.1 mm

① Cathode ② Anode

■ **Notes**

1. Above specification may be changed without notice. SHUGUAN will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. SHUGUAN assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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