

339-9SUGSURSUBW/S1174

Features

- Popular T-1 3/4 package.
- High efficiency.
- Selected minimum intensities.
- Available on tape and reel.
- The product itself will remain within RoHS compliant version



Descriptions

- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensities, epoxy, colors, etc.

Applications

- Status indicators.
- Commercial use.
- Advertising Signs.
- Computer

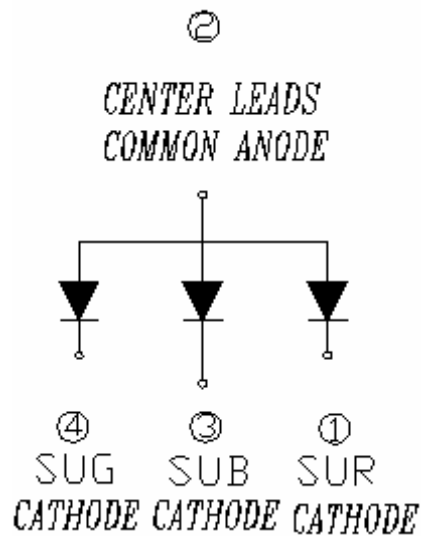
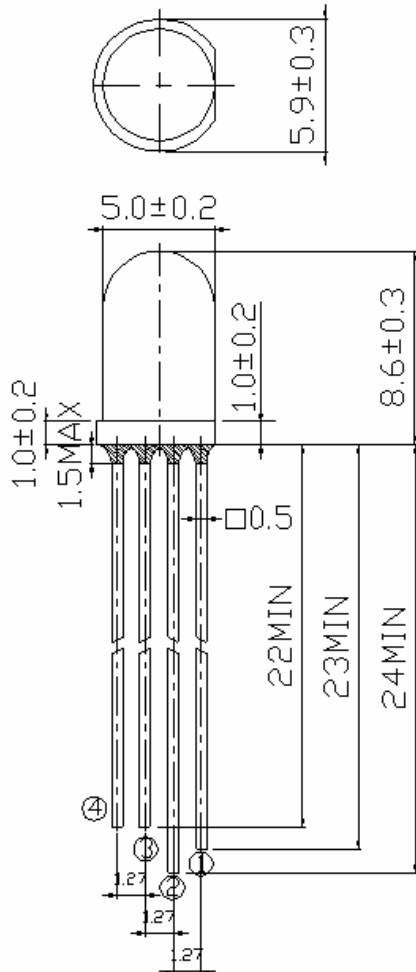
Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
339-9SUGSURSUBW/S1174	InGaN	Super Green	White diffused
	AlGaInP	Hyper red	
	InGaN	Super Blue	

Technical Data Sheet

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Package Dimensions



Notes:

- All dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Lead spacing is measured where the lead emerges from the package.
- Protruded resin under flange is 1.5mm Max LED.



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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	SUB/SUG	SUR	Units
Forward Current	I _F	30	50	mA
Pulse Forward Current (Duty1/10@ 1KHz)	I _{FP}	100	100	mA
Operating Temperature	T _{opr}	-40 ~ +85	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	-40 ~ +100	°C
Electrostatic Discharge	ESD	150	2000	V
Soldering Temperature	T _{sol}	260 ±5	260 ±5	°C
Power Dissipation	P _d	100	120	mW
Reverse Voltage	V _R	5	5	V

***Notes: Soldering time ≤ 5 seconds.**



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Electro-Optical Characteristics (Ta=25°C)

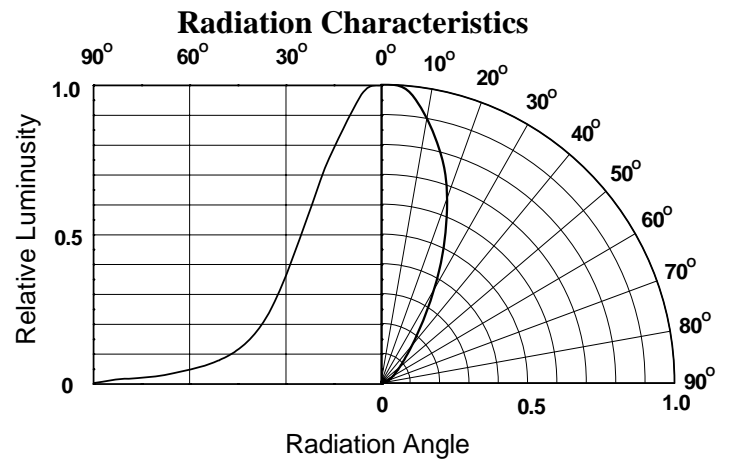
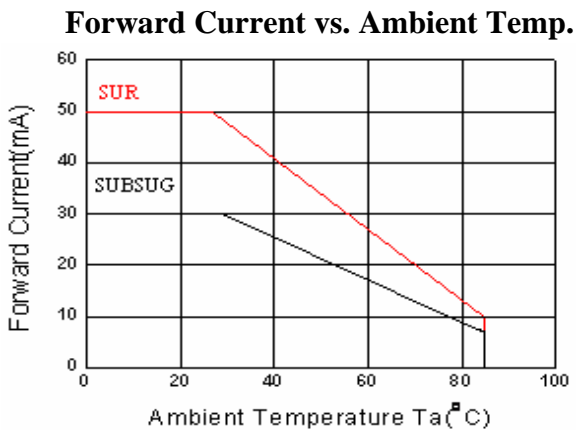
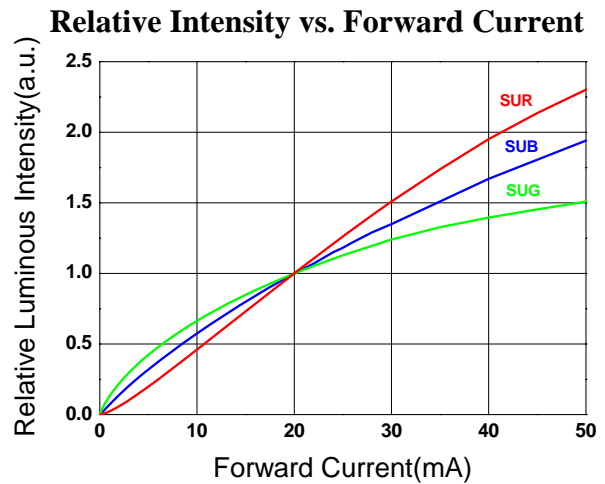
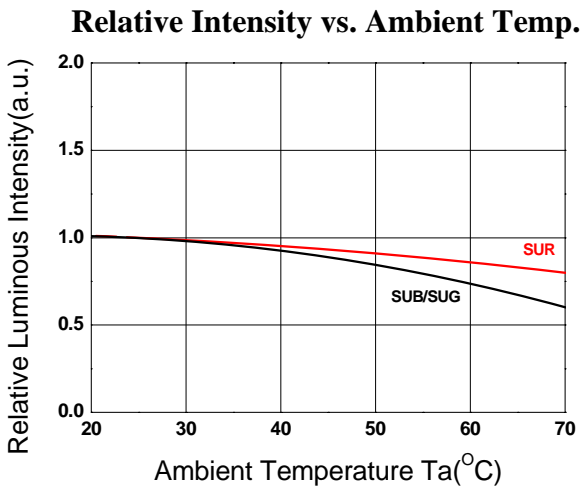
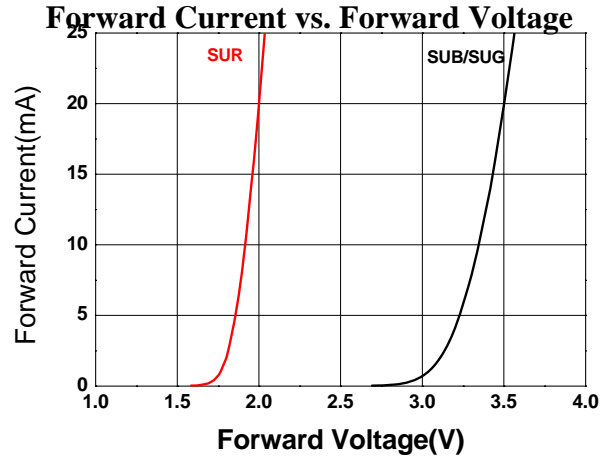
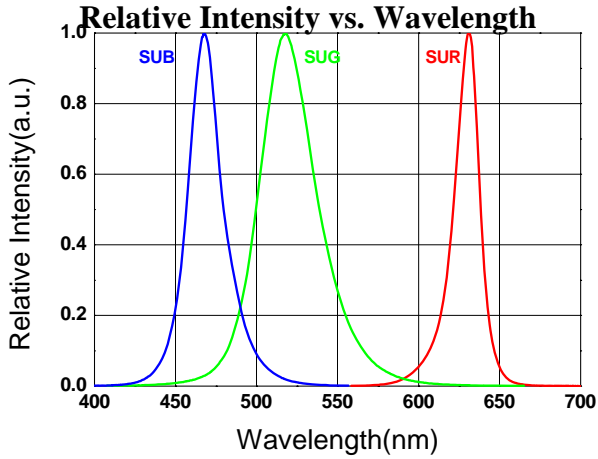
Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Condition				
Luminous Intensity	I _v	SUG	565	650	-----	mcd	I _F =20mA				
		SUR	360	565							
		SUB	100	120							
Viewing Angle	2θ 1/2	SUG	-----	60	-----	deg		I _F =20mA			
		SUR									
		SUB									
Peak Wavelength	λ _p	SUG	-----	518	-----	nm			I _F =20mA		
		SUR		632							
		SUB		468							
Dominant Wavelength	λ _D	SUG	-----	525	-----		nm			I _F =20mA	
		SUR		624							
		SUB		470							
Spectrum half-width	Δλ	SUG	-----	35	-----			nm			I _F =20mA
		SUR		20							
		SUB		35							
Forward Voltage	V _F	SUG	-----	3.5	4.0	V			I _F =20mA		
		SUR		2.0	2.6						
		SUB		3.5	4.0						
Reverse Current	I _R	SUG	-----	-----	50	μA	V _R =5V				
		SUR			10						
		SUB			50						



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Typical Electro-Optical Characteristics Curves





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Packing Quantity Specification

1.500PCS/1Bag, 5Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT	
CPN:	
P/N:	
	RoHS
339-9SUGSURSUBW/S1174	
QTY :	CAT:
	HUE:
LOT NO :	REF:
	
MADE IN TAIWAN	

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks of Luminous Intensity and Forward Voltage

HUE: Rank of Dominant Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place



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Notes

1. Above specification may be changed without notice. EVERLIGHT 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. EVERLIGHT 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.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.
4. Soldering Condition

Careful attention should be paid during soldering. When soldering, leave more than 3mm from solder joint to case, and soldering beyond the base of the tie bar is recommended.

Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly when soldering.

Recommended soldering conditions:

Hand Soldering		DIP Soldering	
Temp. at tip of iron	400°C Max. (30W Max.)	Preheat temp.	100°C Max. (60 sec Max.)
Soldering time	3 sec Max.	Bath temp.	265 Max.
Distance	3mm Min.(From solder joint to case)	Bath time.	5 sec Max.
		Distance	3mm Min.

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