CHINA
SEMICONDUCTOR
CORPORATION

Spec. No.	PS-LO-N34STG1-QAOR
Rev.	A

PRODUCT SPECIFICATION

Model No：CSLO-N34STG1-QA0R

Descriptions:
■LED Type ：Superbright Lamp
■LED Package：Oval LED Lamp
■Emitting Color：Green
■Viewing Angle：110°/40°
■Stopper

CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

CHINA SEMICONDUCTOR CORPORATION
Address:2FL. NO.909,Chung-Cheng Road,
Chung-Ho City Taipei Hsien,Taiwan.

Tel:886-2-2223-9696
Fax:886-2-2223-9377

OPTO PLUS TECHNOLOGIES CO.,LTD
Address:696 Shun jiang Rd.,Ji Shan St.Shaoxing,
ZheJiang,China

Tel:86-0575-88623888
Fax:86-0575-88623112

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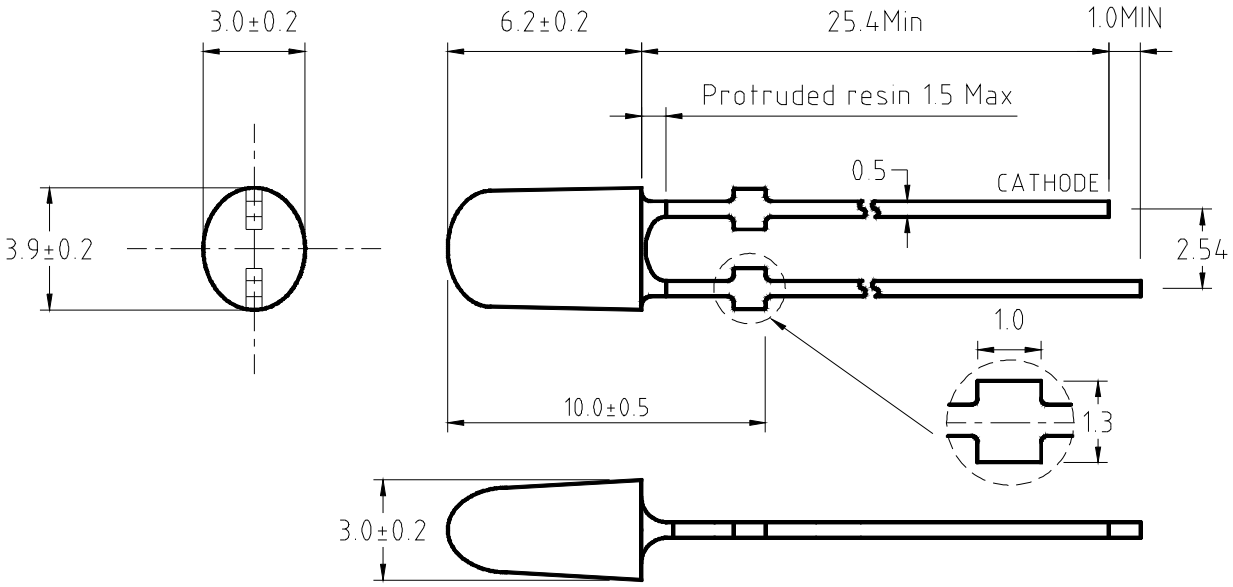
■ Features -

1. Low Power Consumption.
2. High Luminous Output
3. High Reliability and Solid Performance
4. Optimal Optical/Mechanical Design
5. Rohs Compliant

■ Device Selection Guide -

Part No.	Chip		LED Lens
	Material	Emitted Color	
CSLO-N34STG1-QA0R	InGaN	Green	Green Diffused

■ Package Outline Dimensions -



＊Tolerance：$\pm\frac{0.01}{0.25}$ Unit：$\pm\frac{\text{inch}}{\text{mm}}$

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■ Absolute Maximum Rating -

(Ta=25℃)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	114	mW
Forward Current (DC)	IF	30	mA
Peak Forward Current *	IFP	100	mA
Reverse Voltage	VR	5	V
Operating Temp.	Topr	-30 ~ +85	℃
Storage Temp.	Tstg	-40 ~ +100	℃
Lead Soldering Temperature	Tsol	Max. 260℃ for 5 sec Max. (3mm from the epoxy bulb)	

* Pulse width ≦0.1 msec. duty ≦1/10

■ Electro-optical Characteristics -

(Ta=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	VF	-----	3.2	3.8	V	IF=20mA
Luminous Intensity	Iv	1500	2000	4200	mcd	
Dominant Wavelength	λd	515	525	535	nm	
Peak Wavelength	λp	-----	518	-----	nm	
Spectral Half Width	Δλ1/2	-----	30	-----	nm	
Viewing Angle	2θ 1/2	-----	110(X)	-----	deg	
		-----	40(Y)	-----		
Reverse Current	IR	-----	-----	50	μA	VR=5V

Model No：CSLO-N34STG1-QA0R

■ Luminous Intensity Rank Limits (I_F = 20mA)

unit：mcd

Part No. / Code	CSLO-N34STG1-QA0R	
	min.	max.
R	1500	1900
S	1900	2500
T	2500	3200
U	3200	4200

■ Color Rank Limits (I_F = 20mA)

unit：nm

Part No. / Code	CSLO-N34STG1-QA0R	
	min.	max.
1	515	520
2	520	525
3	525	530
4	530	535

Notes:

1. Tolerance of measurement of luminous intensity :±15%
2. Tolerance of measurement of Color Coordinates :±0.01
3. Tolerance of measurement of forward voltage :±0.05v
4. All data are measured by CSC's test equipment.
5. One delivery will include several color rank, VF rank and Iv ranks of the products.
6. The quantity-ratio of the ranks is decided by CSC.
7. Please confirm with CSC salesman,if your request different form standard specification.

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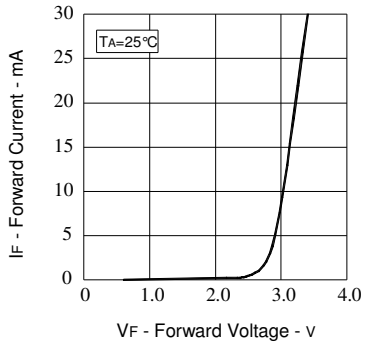
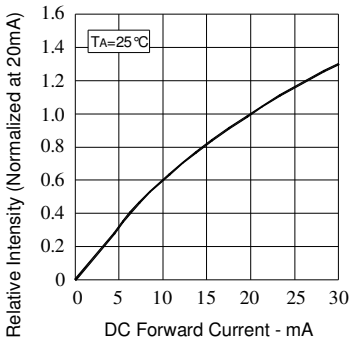
■ Typical Electrical / Optical Charateristics Curves -

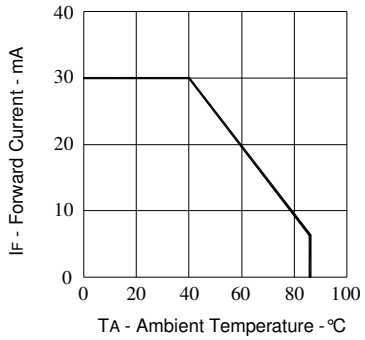
Forward Current vs.Forward Voltage



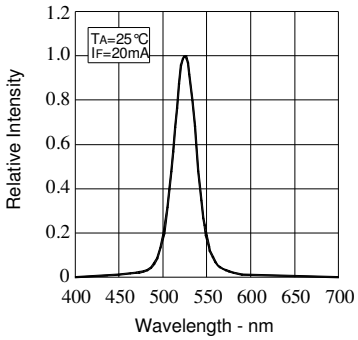
Relative Intensity vs.Forward Current



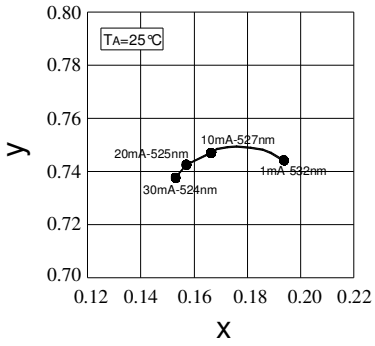
Forward Current vs.Ambient Temperature



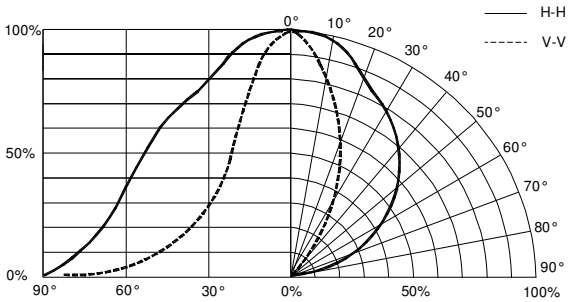
Relative Intensity vs.Wavelength



Forward Current vs.Chromaticity Coordinate



Relative Luminous Intensity vs.Radiation Angle



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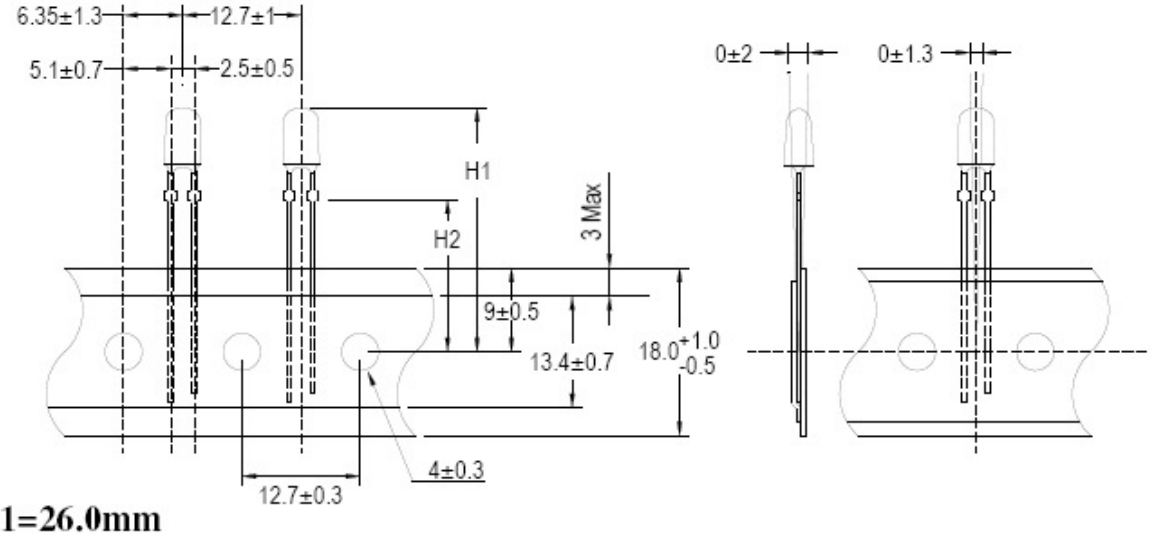
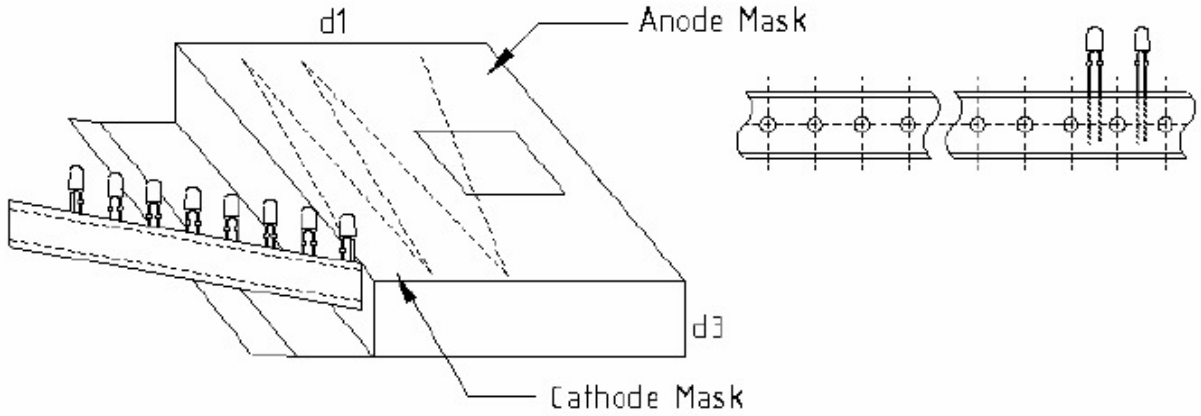
Taping Dimensions



H1=26.0mm
H2=16.0mm

1. The cumulative tolerance for pitch of the sprocket holes is±1mm per 20 pitches
2. The cathode side must be drawn out first
3. The minimum order quantity for taped LEDs is 10K pieces



d1=285mm
d3= 50mm

1. The tape is folded every 25 elements
2. At each end of the tape there is an empty length of equal to more than 10elements spacing of tape
3. The cathode side must be drawn out first

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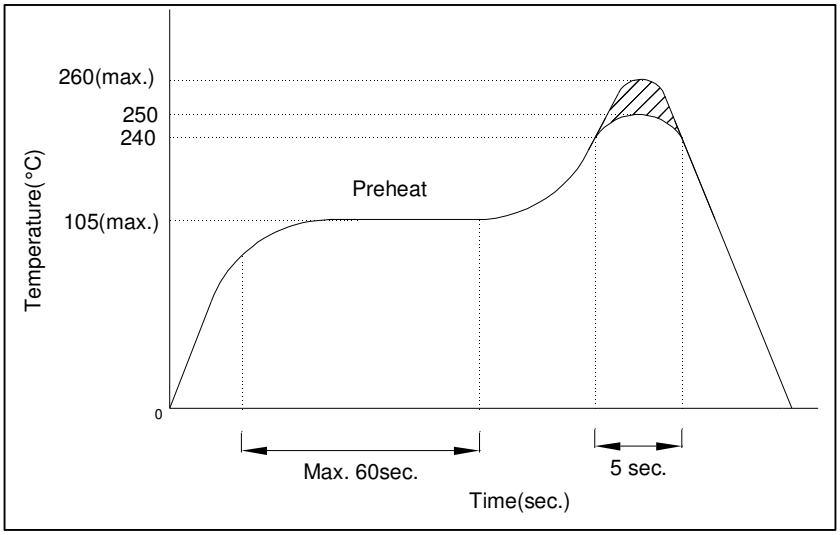
■ Precautions For Use -

1. Recommended Soldering conditions

Wave Soldering



2. Soldering Iron

Basic SPEC. is ≦5 sec. When 260℃. If temperature is higher, time should be shorter (+10℃→ -1sec.). Power dissipation of iron should be smaller than 15W , and temperature should be controllable. Surface temperature of the device should be under 230℃.

3. Static Electricity

a. Static electricity or surge voltage damages LEDs..
It is recommended that a wrist band or an anit-electrostatic glove be used when handling the LEDs.

b. All devices, equipment and machinery must be properly grounded. It is recommended that mesures be taken against surge voltage to the equipment that mounts the LEDs.

Note: The specifications are subject to change without notice. Please contact us for updated information.