

Technical Data Sheet

MODEL NO: 195UR/ANG4 0605Package 1.6*1.5mm Chip LEDs

Features:

Package in 8mm tape on 7 " diameter reel

Compatible with automatic placement equipment

Compatible with reflow solder process

Applications:

Indicators

Automotive: backlighting in dashboard and switch

Backlight for LCD

Dice material	Emitted color	Lens Color	
AlGaInP	Red		
		Water Clear	
GalnN	Pure Green		

Electrical/Optical Characteristics(Ta=25

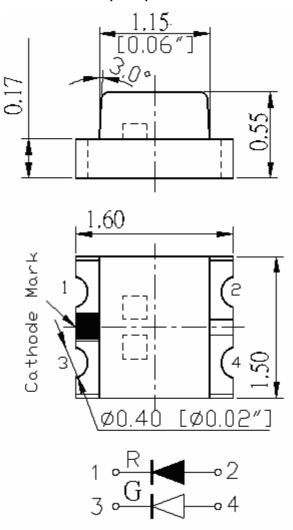
Parameter	Test	Symbol		Value			Linit
	Condition	Symbol	Min	Тур	Max	- Unit	
Wavelength at peak emission	If=20mA	peak	R		630		nm
			G		530		
Spectral half bandwidth	If=20mA		R		20		- nm
			G		35		
Dominant wavelength	If=20mA	A dom	R		624		- nm
Dominant wavelength			G		525		
Forward voltage	If=20mA	lf=20mA Vf	R		2.2	2.4	- V
r of ward voltage			G		3.2	3.8	
Luminous intensity	If=20mA	lv	R		100		- mcd
Luminous intensity			G		380		
Viewing angle at 50% lv	If=10mA	2 1/2			120		Deg
Reverse current	Vr=5V	lr				10	μА

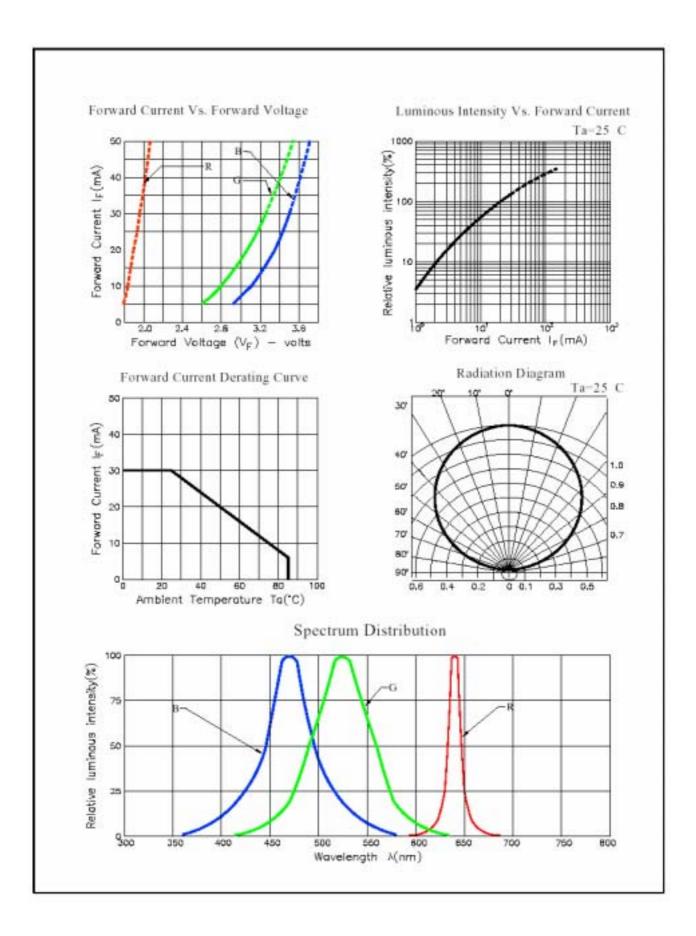


Absolute Maximum Ratings(Ta=25)

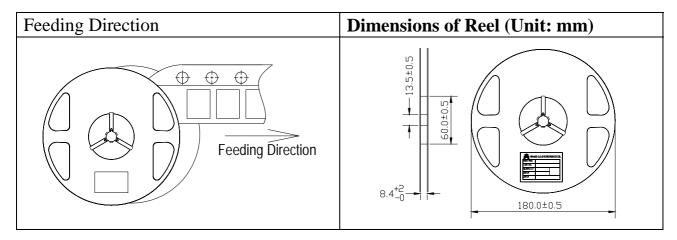
Parameter	Symbol	Value	Unit
Power dissipation	Pd	75	mW
Forward current	lf	30	mA
Reverse voltage	Vr	5	V
Operating temperature range	Тор	-30 ~+85	
Storage temperature range	Tstg	-40 ~+85	
Peak pulsing current (1/8 duty f=1kHz)	Ifp	100	mA

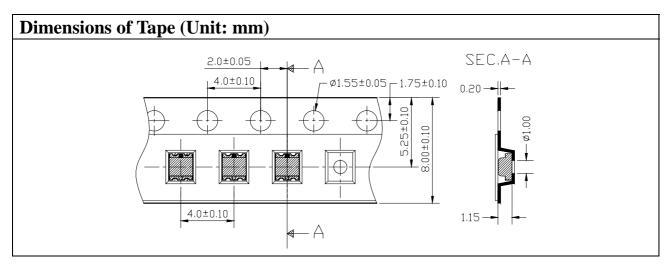
PACKAGING DIMENSIONS (mm):

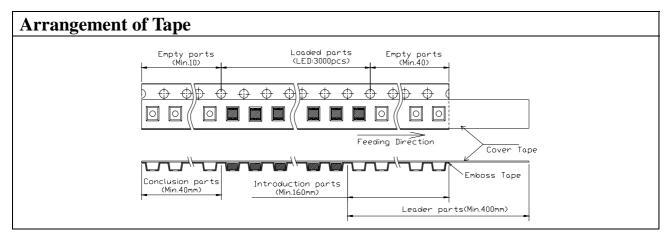




PACKAGING SPECIFICATIONS







NOTES

- 1. Empty component pockets are sealed with top cover tape;
- 2. The maximum number of missing lamps is two;
- 3. The polarity mark is oriented towards the tape sprocket hole;
- 4. 3,000pcs/Reel.



PACKAGING SPECIFICATIONS

Packaging specifications Reel(3,000pcs) Moisture-proof bag Lable Lable Inside box Maximums seven reels Maximums four inside boxes

NOTES:

Reeled products (numbers of products are 3,000pcs) packed in a seal off moisture-proof bag along with a desiccant one by one, Seven moisture-proof bag of maximums (total maximum number of products are 21,000pcs) packed in an inside box (size: about 283mm x about 194mm x about 102mm) and four inside boxes of maximums are put in the outside box (size: about 410mm x about 254mm x about 229mm) Together with buffer material, and it is packed. (Part No., Lot No., quantity should appear on the label on the moisture-proof bag, part No. And quantity should appear on the label on the cardboard box.) The number of the loading steps of outside box (cardboard box) has it to three steps.

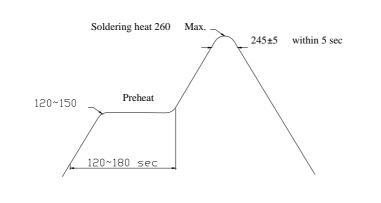
Descriptions:

The Chip-LED Taping is much smaller than lead frame type components, thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained.

Besides, lightweight makes them ideal for miniature application, etc.

Soldering heat reliability (DIP):

Please refer to the following figure:



Precautions For Use:

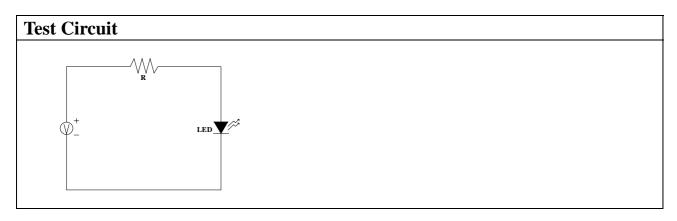
Over - current - proof

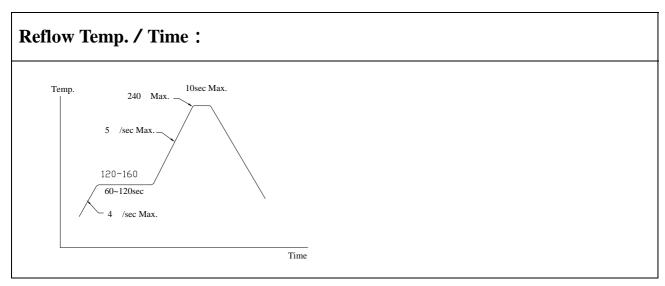
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen)

Storage

- 1. The operation of temperature and R.H. are : 5 30 , 60% R.H. Max.
- 2. Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a dampproof box with desiccating regent. Considering the tape life, we suggest our customers to use our products within 1.5 year (from production date) .
- 3. It's recommended to bake before soldering when the package is unsealed after 72 hrs. The condition is: 60 ±5 for 15hrs.







Reliability Test Items And Conditions

The reliability of products shal be satisfied with items listed below.

No.	Items	Test Condition	Test	Sample Size
			Hours/Cycles	Size
1	Solder Heat	TEMP: 260 ±5	5 sec	48 pcs
		90 ~ 25 ~ -30 ~ 25		
2	Temperature Cycle	30m 5m 30m	300Cycles	48 Pcs
		5m		
3 Thermal S	Thermal Shick	100 ~ -55	100Cycles	48 Pcs
	Thermal Sinek	10m 10m	Toocycles	
4	Operation Life	If=20mA	1000 Hrs	48 Pcs
5	High Temperature Storage	Temp:90	1000Hrs	48 Pcs
6	Low Temperature Storage	Temp:-30	1000Hrs	48 Pcs
7	High Temperature/High Humidity	80 / R.H80%	1000Hrs	48 Pcs