

### Series 210 - side view

green 572 nm

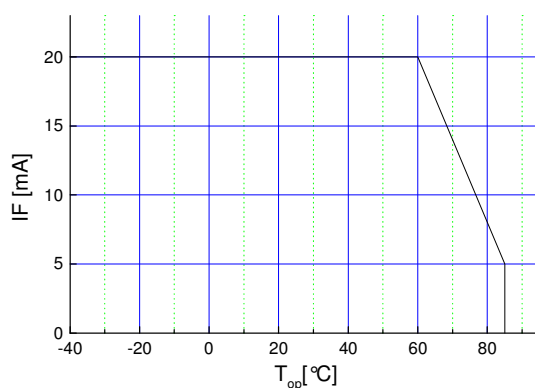
### Features

- for application mounting in side view
- size 1008: 3,0(L) x 1,8(W) x 1,0(H) mm
- circuit substrate: glass laminated epoxy
- devices are ROHS conform
- lead free solderable, soldering pads: gold plated
- taped in 8 mm blister tape, cathode to transporting perforation
- all devices sorted into luminous intensity classes



### Absolute Maximum Ratings

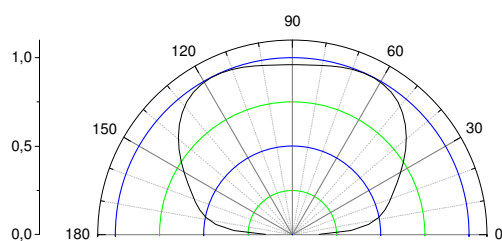
| $I_{F, max}$ [mA] | $I_{F, P}$ [mA] $t_p \leq 100 \mu s$ $\tau = 1: 10$ | $V_R$ [V] | $I_{R, max}$ [ $\mu A$ ] | Thermal resistance $R_{thJA}$ [K / W] | $T_{Op}$ [ $^{\circ}C$ ] | $T_{St}$ [ $^{\circ}C$ ] |
|-------------------|-----------------------------------------------------|-----------|--------------------------|---------------------------------------|--------------------------|--------------------------|
| 20                | 50                                                  | 4         | 100                      | 500                                   | -40...85                 | -55...85                 |



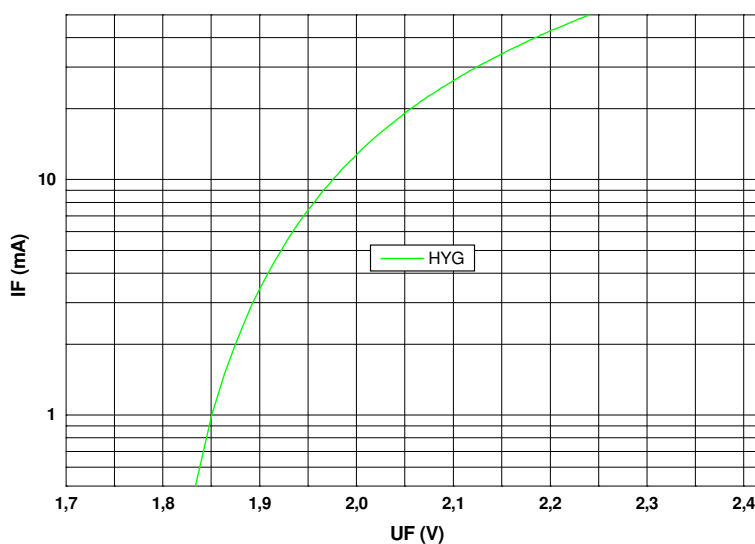
Maximal  
forward  
current (DC)  
characteristic

### Electro-Optical Characteristics

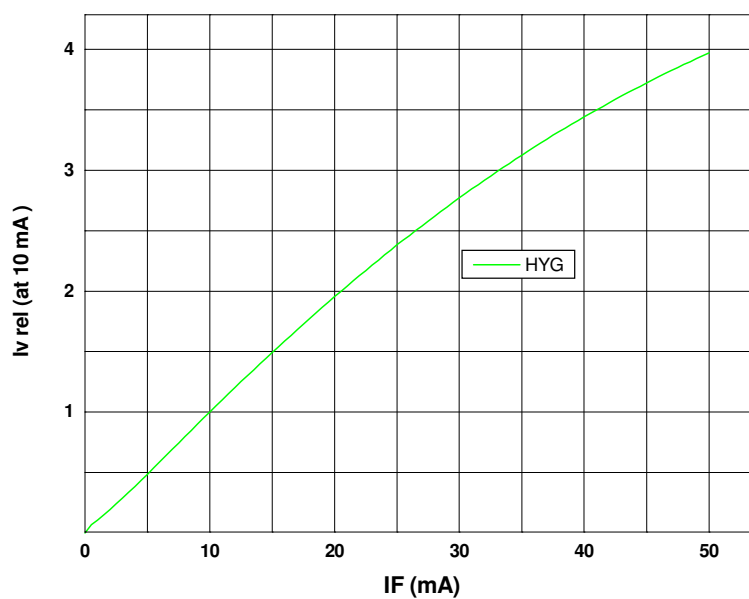
| Type        | Emitting color | Marking at | Measurement $I_F$ [mA] | $V_F$ [V] |     | $\lambda_d / \lambda_p^*$ [nm] | $I_v$ [mcd] |     |
|-------------|----------------|------------|------------------------|-----------|-----|--------------------------------|-------------|-----|
|             |                |            |                        | typ       | max |                                | min         | typ |
| OLS-210 HYG | hyper green    | cathode    | 20                     | 2,1       | 2,6 | 572                            | 20          | 50  |



view angle

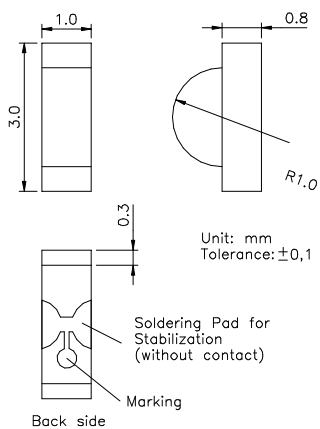


$U_F - I_F$   
characteristic

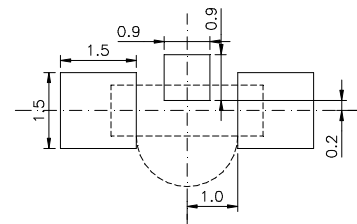


$I_F - I_{v, \text{rel}}$   
characteristic

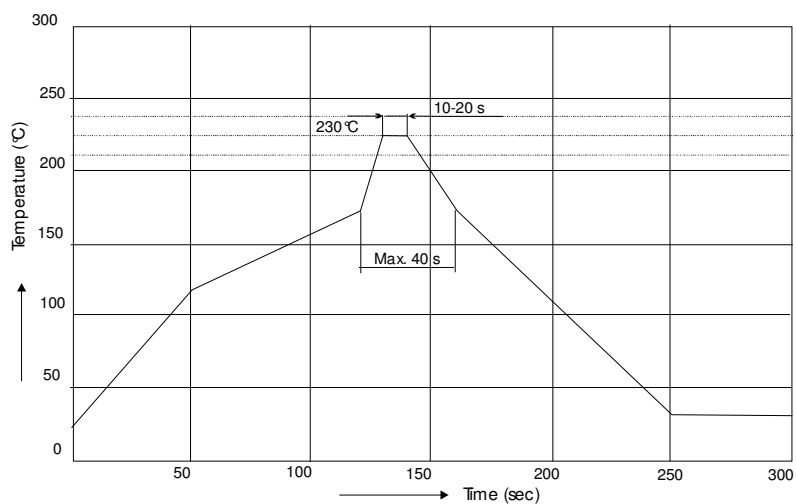
## Outline Drawing



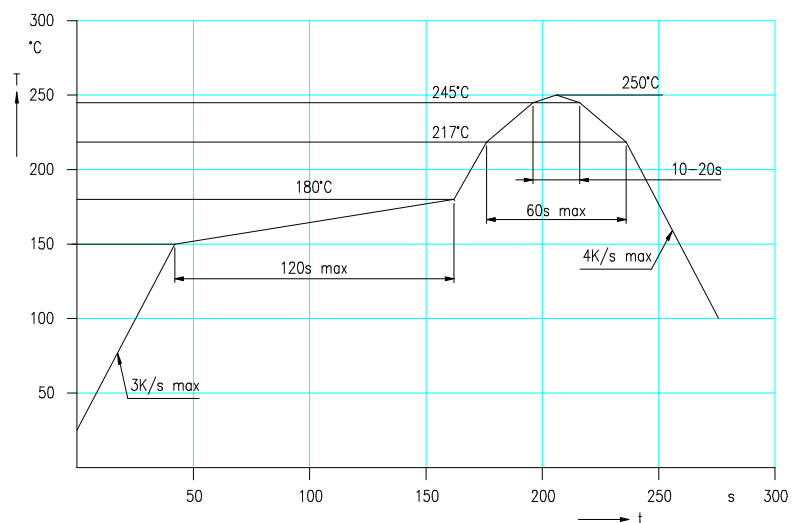
## Recommended Soldering Patterns



## Soldering Conditions



IR reflow  
soldering  
profile



IR reflow  
soldering  
profile for lead  
free soldering

Manual soldering: max power of iron 25W/ 3s/ 300°C

## Ordering Code For Parts

| Series  |   | Color   |   | Encapsulation       |   | Packaging |
|---------|---|---------|---|---------------------|---|-----------|
| OLS-210 | - | ??????? | - | X                   | - | T         |
|         |   |         |   |                     |   | T - taped |
|         |   |         |   | X - uncolored clear |   |           |

Type definition, e.g. OLS-210 HYG-X -T

## LED Luminous Intensity Groups And Subgroups [ mcd ]

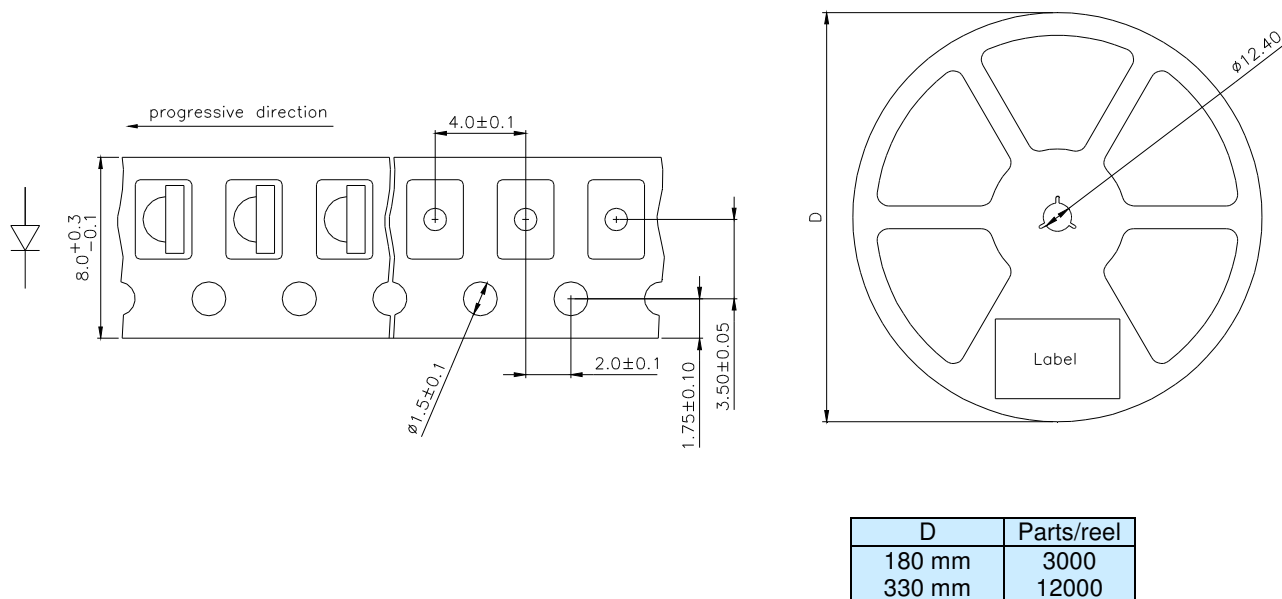
(general information – not this device specific)

|    |       |   |       |     |       |   |       |     |      |   |      |
|----|-------|---|-------|-----|-------|---|-------|-----|------|---|------|
| C: | 0.28  | - | 0.45  | C1: | 0.28  | - | 0.36  | Q1: | 71   | - | 90   |
| D: | 0.45  | - | 0.71  | C2: | 0.36  | - | 0.45  | Q2: | 90   | - | 112  |
| E: | 0.71  | - | 1.12  | D1: | 0.45  | - | 0.56  | R1: | 112  | - | 140  |
| F: | 1.12  | - | 1.80  | D2: | 0.56  | - | 0.71  | R2: | 140  | - | 180  |
| G: | 1.80  | - | 2.80  | E1: | 0.71  | - | 0.90  | S1: | 180  | - | 224  |
| H: | 2.80  | - | 4.50  | E2: | 0.90  | - | 1.12  | S2: | 224  | - | 280  |
| J: | 4.50  | - | 7.10  | F1: | 1.12  | - | 1.40  | T1: | 280  | - | 355  |
| K: | 7.10  | - | 11.20 | F2: | 1.40  | - | 1.80  | T2: | 355  | - | 450  |
| L: | 11.20 | - | 18.00 | G1: | 1.80  | - | 2.24  | U1: | 450  | - | 560  |
|    |       |   |       | G2: | 2.24  | - | 2.80  | U2: | 560  | - | 710  |
| M: | 18    | - | 28    | H1: | 2.80  | - | 3.55  | V1: | 710  | - | 900  |
| N: | 28    | - | 45    | H2: | 3.55  | - | 4.50  | V2: | 900  | - | 1120 |
| P: | 45    | - | 71    | J1: | 4.50  | - | 5.60  | W1: | 1120 | - | 1420 |
| Q: | 71    | - | 112   | J2: | 5.60  | - | 7.10  | W2: | 1420 | - | 1800 |
| R: | 112   | - | 180   | K1: | 7.10  | - | 9.00  | X1: | 1800 | - | 2250 |
| S: | 180   | - | 280   | K2: | 9.00  | - | 11.20 | X2: | 2250 | - | 2800 |
| T: | 280   | - | 450   | L1: | 11.20 | - | 14.00 | Y1: | 2800 | - | 3550 |
| U: | 450   | - | 710   | L2: | 14.00 | - | 18.00 | Y2: | 3550 | - | 4500 |
| V: | 710   | - | 1120  | M1: | 18.00 | - | 22.40 | Z1: | 4500 | - | 5750 |
| W: | 1120  | - | 1800  | M2: | 22.40 | - | 28.00 | Z2: | 5750 | - | 7100 |
| X: | 1800  | - | 2800  | N1: | 28.00 | - | 35.50 |     |      |   |      |
| Y: | 2800  | - | 4500  | N2: | 35.50 | - | 45.00 |     |      |   |      |
| Z: | 4500  | - | 7100  | P1: | 45.00 | - | 56.00 |     |      |   |      |
|    |       |   |       | P2: | 56.00 | - | 71.00 |     |      |   |      |

**Measured according to CIE 127. All SMD-LEDs are 100% measured and selected on full automated equipment with an accuracy of  $\pm 11$  %.**

**Special service: Brightness selection in sub selections possible.  
Color selection in 3 sub selections possible (each subgroup per reel).**

## Tape And Reel Packing



**Packing:** The reel is sealed in special plastic bag with integrate ESD protection ( MIL - STD 81705 ) including a silica dry-pack

### Label

Order No. XXXXXXXXXX

Customer order No.

Type OLS-210 ?????-??-T

Intensity group ZZ Color class: CC

Color class - optional

Charge No. 1122-AAAAAA

11 Week – 22 year – A internal identification

Quantity 9999

Attention please:

The information describes the type of component and shall not considered as assured characteristics. Terms of delivery and rights to change reserved.

Due to technical requirements components may contain dangerous substances.

The data sheet may changed without prior information; the valid issue will be on our webpage in internet.

Packaging:

Please use the recycling operators known to you.

Components used in life support devices or systems and safety systems must be expressly authorized for such purpose!