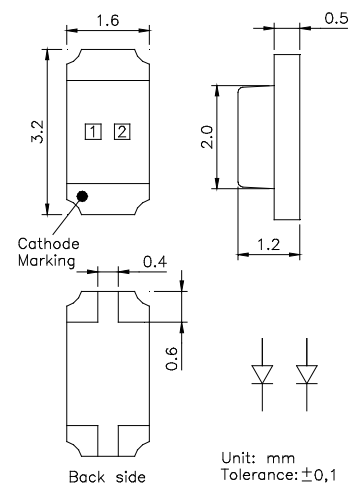


### Series 130 - 1206 Duplex

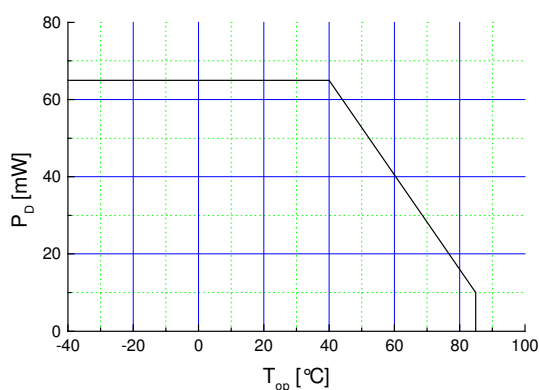
#### Features

- size 1206: 3,2(L) x 1,6(W) x 1,2(H) mm
- circuit substrate: glass laminated epoxy
- soldering pads: gold plated, all soldering methods applicable
- taped in 8 mm blister tape, cathode to transporting perforation
- all devices sorted into luminous intensity classes
- taping: face-up (TU) or face-down (TD) possible
- on request sorted in color classes



### Absolute Maximum Ratings

| $P_{D, max}$ [mW] | $I_{F, P}$ [mA] $tp \leq 100 \mu s$ $\tau=1:10$ | $V_R$ [V] | $I_{R, max}$ [ $\mu A$ ] | Thermal resistance $R_{thJA}$ [K / W] | $T_{Op}$ [ $^{\circ}C$ ] | $T_{St}$ [ $^{\circ}C$ ] |
|-------------------|-------------------------------------------------|-----------|--------------------------|---------------------------------------|--------------------------|--------------------------|
| 65                | 100                                             | 5         | 100                      | 450                                   | -40...105                | -55...105                |

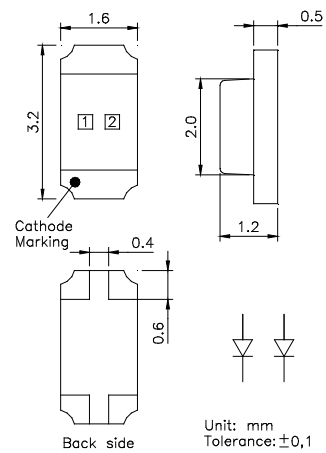


Power  
reduction  
characteristic

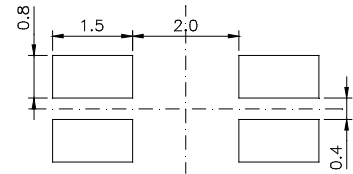
### Electro-Optical Characteristics

| Type           | Emission color | Die position | Measurement $I_F$ [mA] | $V_F$ [V] |     | $\lambda_d / \lambda_p^*$ [nm] | $I_V$ [mcd] |     |
|----------------|----------------|--------------|------------------------|-----------|-----|--------------------------------|-------------|-----|
|                |                |              |                        | typ       | max |                                | min         | Typ |
| OLS-130 HSD/HY | hyper TSN red  | 1            | 20                     | 2,1       | 2,6 | 625                            | 60          | 120 |
|                | hyper yellow   | 2            | 20                     | 2,0       | 2,6 | 590                            | 60          | 150 |

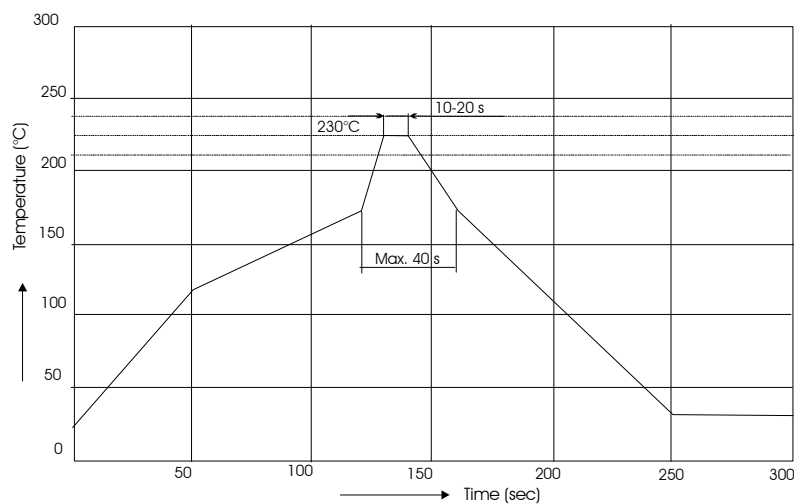
## Outline Drawing



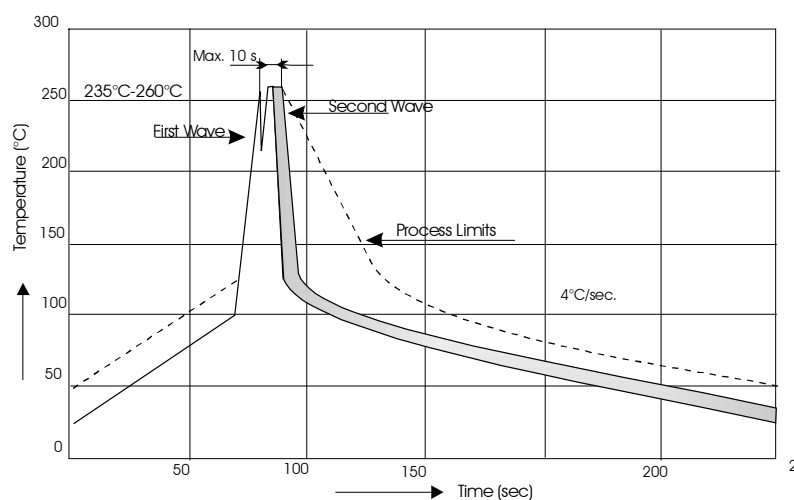
## Recommended Soldering Patterns



## Soldering Conditions



IR reflow  
soldering  
profile



Wave  
soldering  
profile

Manual soldering: max power of iron 25W/1s/300 °C

## Ordering Code For Parts

OLS-130 HSD/HY - CX - TU

Type

TU - taped up  
TD - taped down

CX - colored clear

## LED Luminous Intensity Groups And Subgroups [ mcd ]

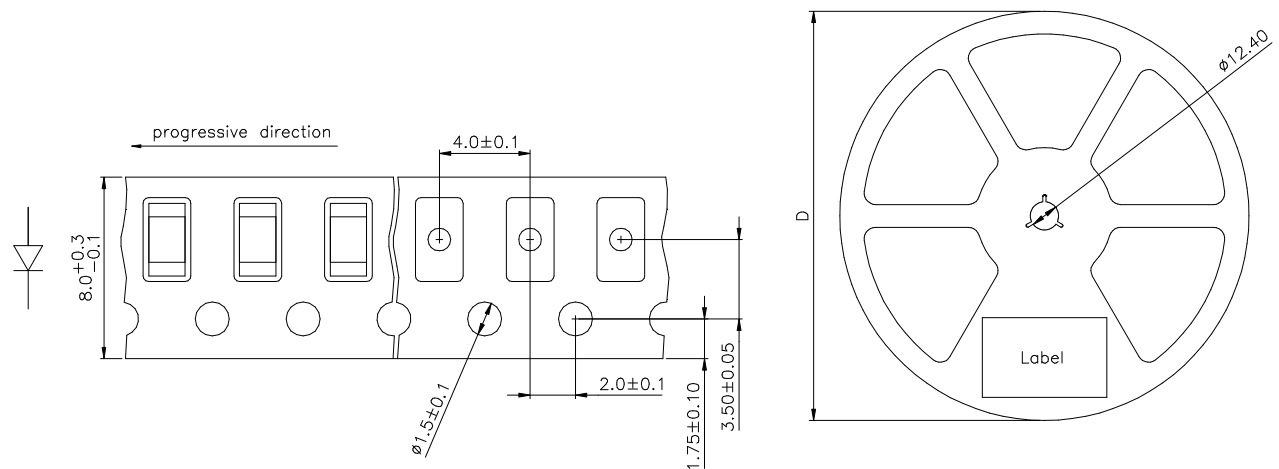
(general information – not this device specific)

|    |       |   |       |     |       |   |       |     |      |   |      |
|----|-------|---|-------|-----|-------|---|-------|-----|------|---|------|
| 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



| D      | Parts/reel |
|--------|------------|
| 180 mm | 3000       |
| 330 mm | 12000      |

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

### Label

Order No. XXXXXXXXX

Customer order No.

Type OLS-130 HSD/HY-??-T?

Intensity group ZZ

Chargen No. 1122-AAAAAA

11 Week – 22 year – A internal identification

Quantity 9999