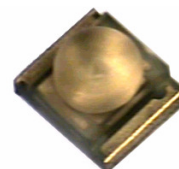


## Series 634 - High current, with lens

preliminary

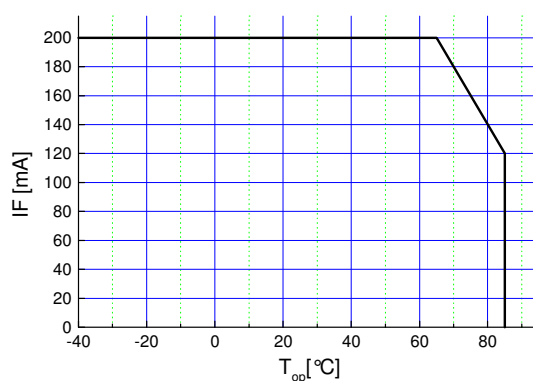
### Features

- size 1210: 3,3(L) x 2,9(W) x 2,9(H) mm
- high current up to 200 mA
- with lens, view angle 40°
- soldering pads: gold plated, all soldering methods applicable
- taped in 16 mm blister tape, cathode to transporting perforation
- all devices sorted into luminous intensity classes
- high radiation intensity types



### Absolute Maximum Ratings

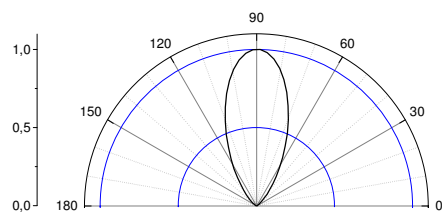
| $I_{F, max}$ [mA] | $I_{F, P}$ [mA] $t_p \leq 100 \mu s$ $\tau = 1: 10$ | $V_R$ [V] | $I_{R, max}$ [ $\mu A$ ] | Thermal resistance $R_{thJA}$ [K / W] | $T_{Op}$ [°C] | $T_{St}$ [°C] |
|-------------------|-----------------------------------------------------|-----------|--------------------------|---------------------------------------|---------------|---------------|
| 200               | 1000                                                | 5         | 100                      | 24                                    | -40...85      | -55...85      |



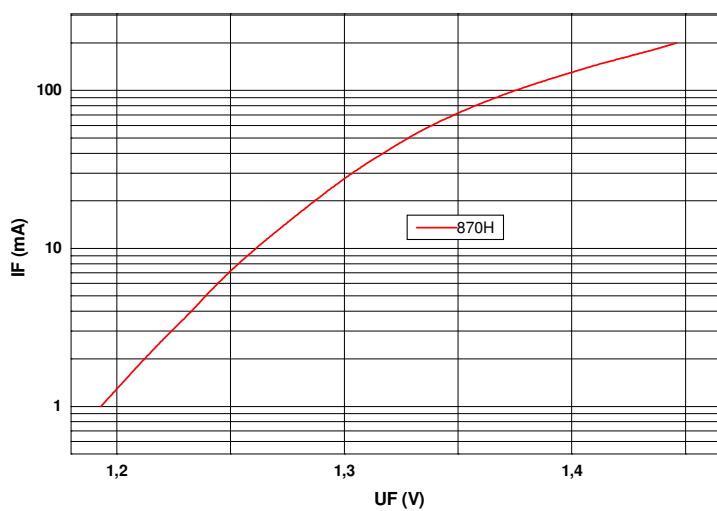
Maximal  
forward  
current (DC)  
characteristic

### Electro-Optical Characteristics

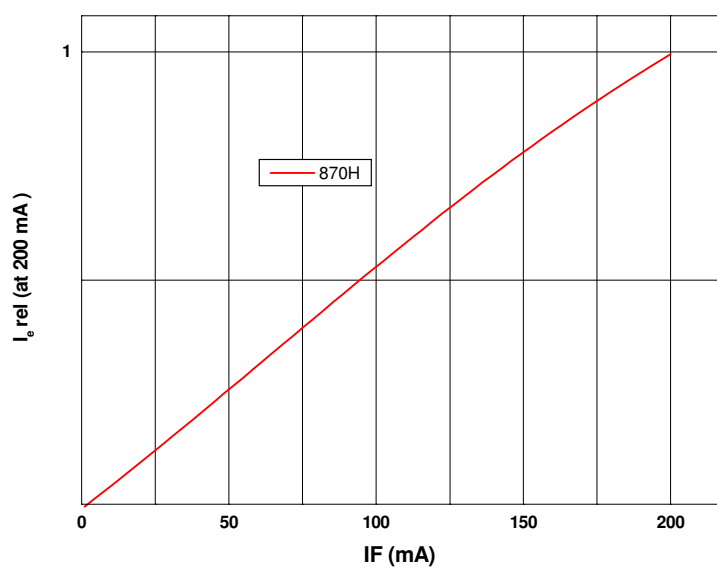
| Type         | Marking at | Measurement $I_F$ [mA] | Switching time (rise & fall) |          | $V_F$ [V] |      | $\lambda_p$  | $I_e$ [mW/sr] |     |
|--------------|------------|------------------------|------------------------------|----------|-----------|------|--------------|---------------|-----|
|              |            |                        | typ [ns]                     | max [ns] | typ       | max  | [nm]         | min           | typ |
| OHL-634 870F | cathode    | 200                    | 5                            | 8        | 1,45      | 1,75 | 870 $\pm 15$ | 20            | 40  |
| OHL-634 870  | cathode    | 200                    | 25                           | 30       | 1,45      | 1,75 | 870 $\pm 15$ | 35            | 70  |
| OHL-634 870H | cathode    | 200                    | 30                           | 80       | 1,45      | 1,75 | 870 $\pm 15$ | 40            | 80  |



view angle

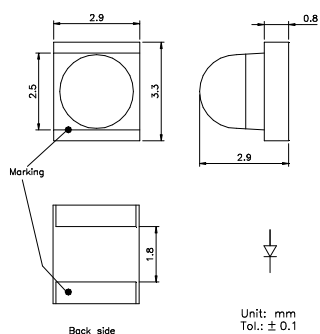


$U_F - I_F$   
characteristic

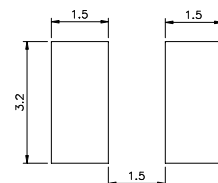


$I_F - I_{e,rel}$   
characteristic

## Outline Drawing

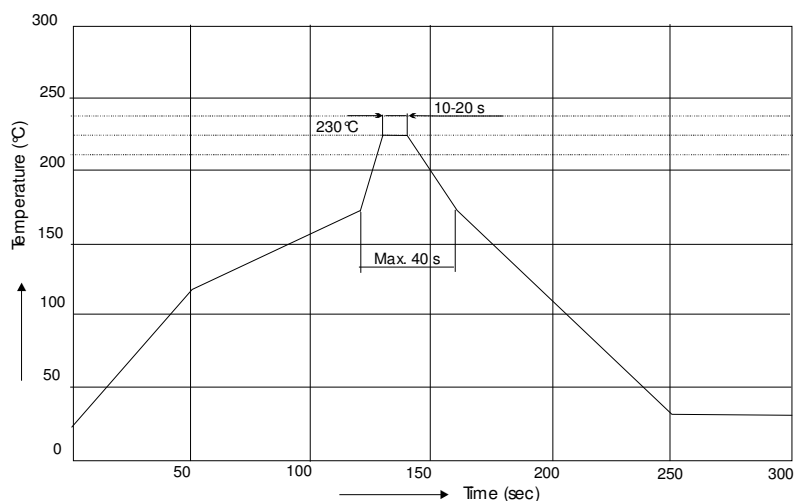


## Recommended Soldering Patterns

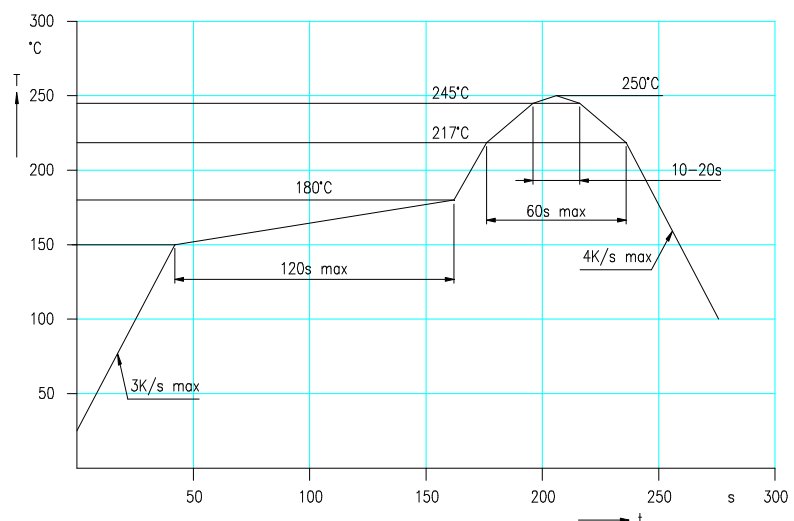


recommended min. thermal resistance  
device–ambient: 55 K/W  
4x4 mm<sup>2</sup> on IMS

## 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 |
|--------|-------|---------------|-----------|
|--------|-------|---------------|-----------|

OHL-634

-

???????

-

X

-

T

T - taped

X - uncolored clear

Type definition, e.g. OHL-634 870F-X -T

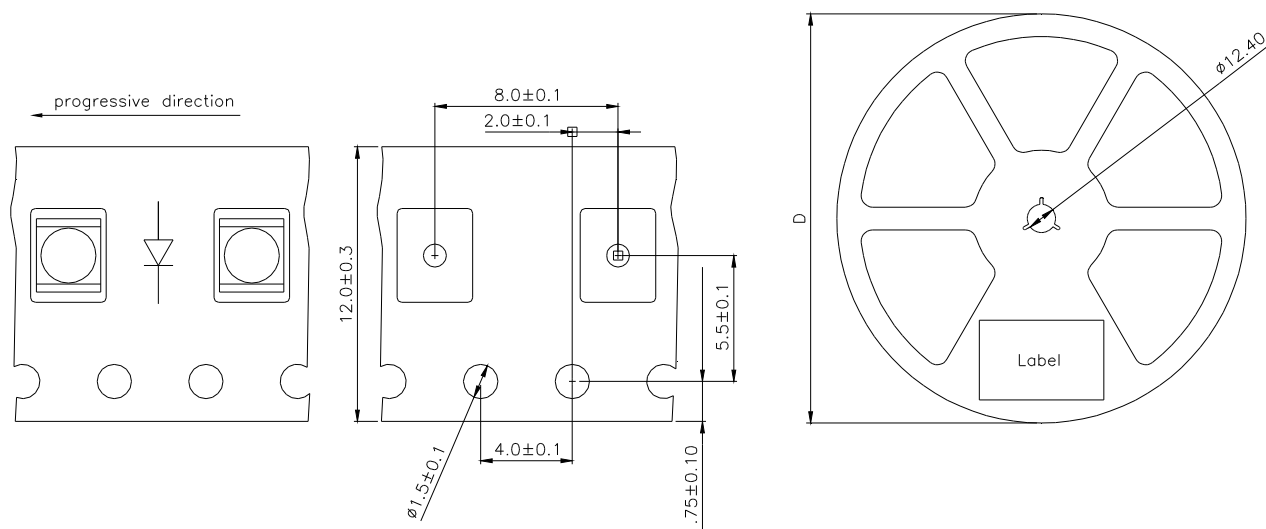
## LED Luminous Intensity Groups And Subgroups [ mW/sr ]

(general information – not this device specific)

|    |       |   |       |     |      |   |      |     |       |   |       |
|----|-------|---|-------|-----|------|---|------|-----|-------|---|-------|
| C: | 0.28  | - | 0.45  | C1: | 0.28 | - | 0.36 | J1: | 4.50  | - | 5.60  |
| D: | 0.45  | - | 0.71  | C2: | 0.36 | - | 0.45 | J2: | 5.60  | - | 7.10  |
| E: | 0.71  | - | 1.12  | D1: | 0.45 | - | 0.56 | K1: | 7.10  | - | 9.00  |
| F: | 1.12  | - | 1.80  | D2: | 0.56 | - | 0.71 | K2: | 9.00  | - | 11.20 |
| G: | 1.80  | - | 2.80  | E1: | 0.71 | - | 0.90 | L1: | 11.20 | - | 14.00 |
| H: | 2.80  | - | 4.50  | E2: | 0.90 | - | 1.12 | L2: | 14.00 | - | 18.00 |
| J: | 4.50  | - | 7.10  | F1: | 1.12 | - | 1.40 | M1: | 18.00 | - | 22.40 |
| K: | 7.10  | - | 11.20 | F2: | 1.40 | - | 1.80 | M2: | 22.40 | - | 28.00 |
| L: | 11.20 | - | 18.00 | G1: | 1.80 | - | 2.24 | N1: | 28.00 | - | 35.50 |
| M: | 18    | - | 28    | G2: | 2.24 | - | 2.80 | N2: | 35.50 | - | 45.00 |
| N: | 28    | - | 45    | H1: | 2.80 | - | 3.55 | P1: | 45.00 | - | 56.00 |
| P: | 45    | - | 71    | H2: | 3.55 | - | 4.50 | 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  $\pm 11$  %.**

## Tape And Reel Packing



| D      | Parts/reel |
|--------|------------|
| 180 mm | 500        |
| 330 mm | 2000       |

**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 OHL-634 ?????-??-T

Intensity group ZZ

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!