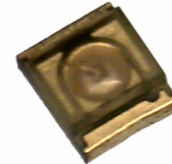


**Series 604 - High current, PLCC2 size**

preliminary

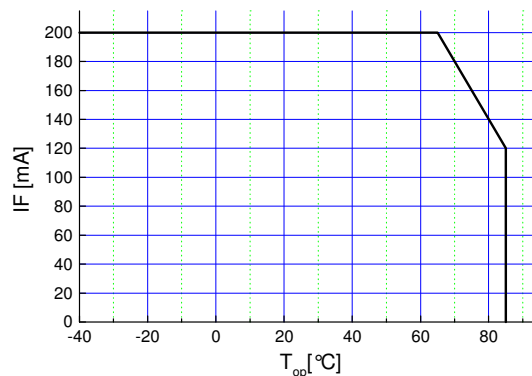
**Features**

- size 1210: 3,3(L) x 2,9(W) x 1,4(H) mm
- high current up to 200 mA
- 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
- high radiation intensity types



**Absolute Maximum Ratings**

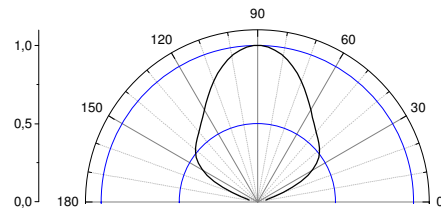
$I_{F, max}$ [mA]	$I_{F, P}$ [mA] $t_p \leq 100 \mu s$ $\tau=1:10$	$V_R$ [V]	$I_R, max$ [ $\mu A$ ]	Thermal resistance $R_{thJA}$ [K / W]	$T_{Op}$ [ $^{\circ}C$ ]	$T_{St}$ [ $^{\circ}C$ ]
200	1000	5	100	24	-40...85	-55...85



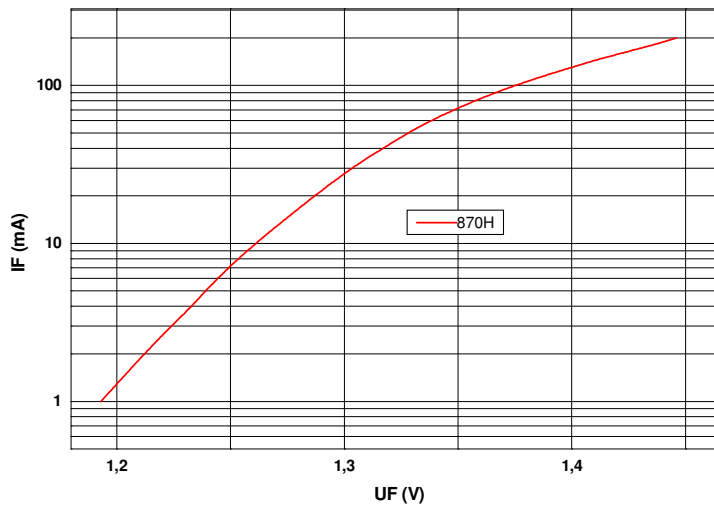
Maximal forward current (DC) characteristic

**Electro-Optical Characteristics**

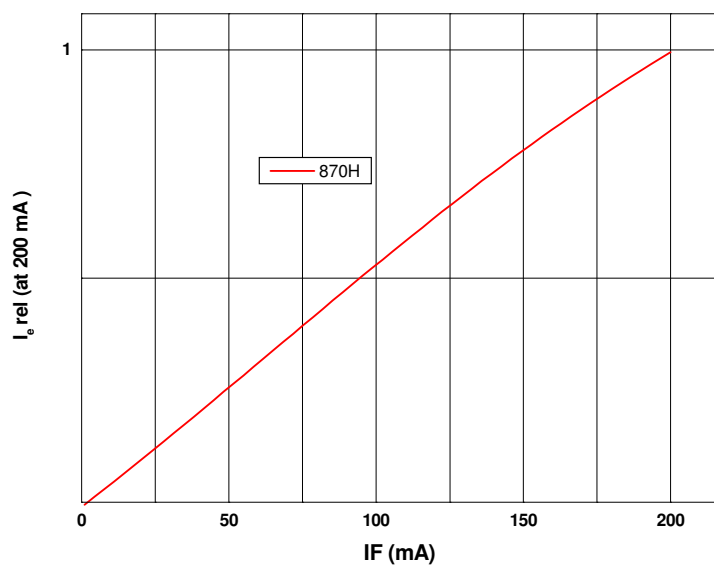
Type	Marking at	Measurement $I_F$ [mA]	Switching time (rise & fall)		$V_F$ [V]		$\lambda_p$ [nm]	$I_e$ [mW/sr]	
			typ [ns]	max [ns]	typ	max		min	typ
OHL-604 870F	cathode	200	5	8	1,45	1,75	870 $\pm$ 15	5.0	10
OHL-604 870	cathode	200	25	30	1,45	1,75	870 $\pm$ 15	8.8	18
OHL-604 870H	cathode	200	30	80	1,45	1,75	870 $\pm$ 15	10	20



view angle

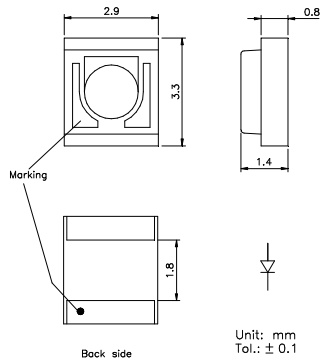


$U_F - I_F$   
characteristic

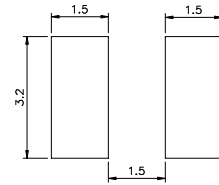


$I_F - I_{e,rel}$   
characteristic

**Outline Drawing**

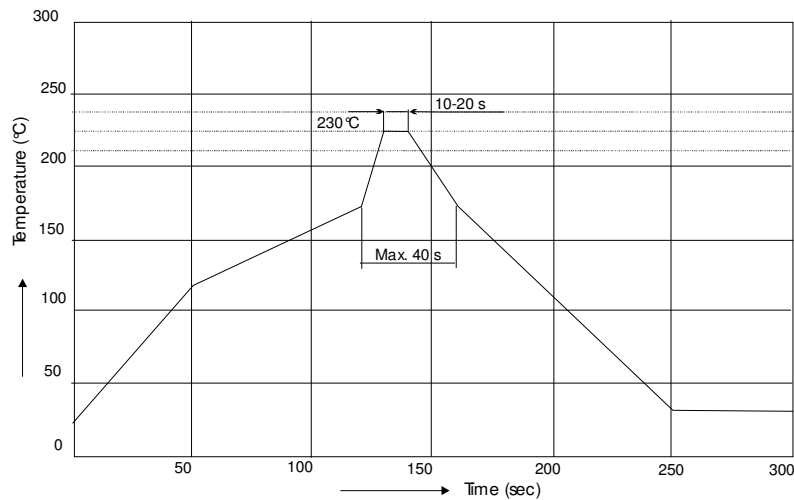


**Recommended Soldering Patterns**

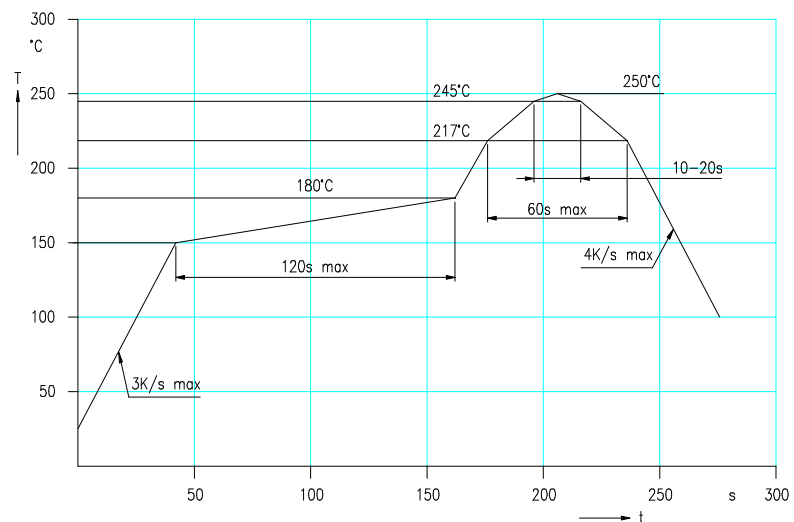


recommended min. thermal resistance  
device–ambient: 55 K/W  
4x4 mm<sup>2</sup> on IMS

**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

<u>Series</u>	<u>Color</u>	<u>Encapsulation</u>	<u>Packaging</u>
OHL-604	????????	X	T
			T - taped
		X - uncolored clear	

Type definition, e.g. OHL-604 870F-X -T

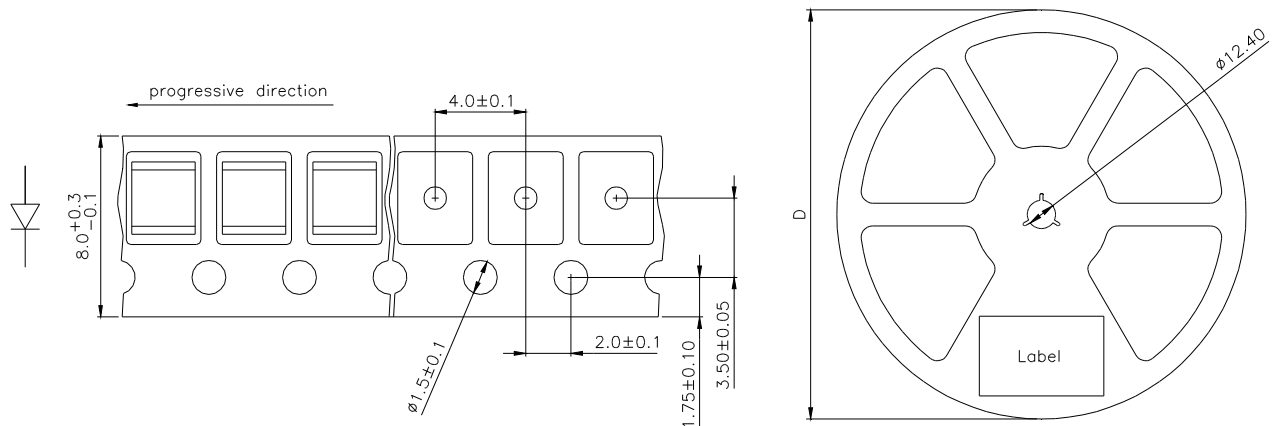
## LED Luminous Intensity Groups And Subgroups [ mW/sr ]

(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	2000
330 mm	8000

**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-604 ?????-??-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!