

Series 605 - Power-LED, PLCC2 size

High luminous intensity

preliminary

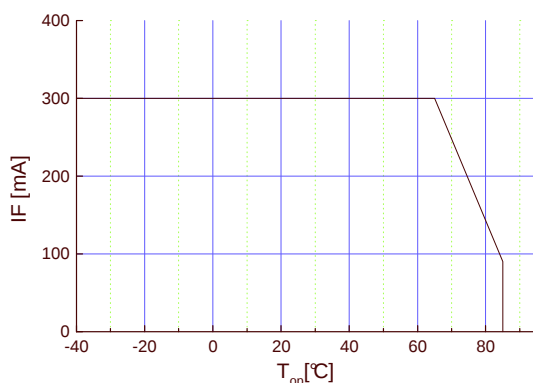
Features

- size 1210: 3,3(L) x 2,9(W) x 1,4(H) mm
- high current up to 300 mA
- soldering pads: noble metal plated, all soldering methods applicable
- taped in 8 mm blister tape, cathode to transporting perforation
- all devices sorted into luminous intensity classes



Absolute Maximum Ratings

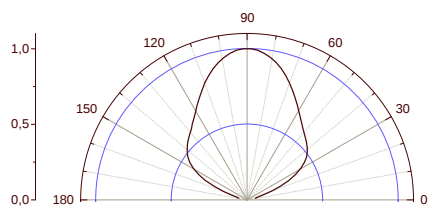
$I_{F, max}$ [mA]	$I_{F, P}$ [mA] $t_p \leq 100 \mu s$ $\tau=1: 10$	V_R [V]	$I_{R, max}$ [μA]	Thermal resistance R_{thJA} [K / W]	T_{Op} [$^{\circ}C$]	T_{St} [$^{\circ}C$]
300	500	5	100	24	-40...85	-55...85



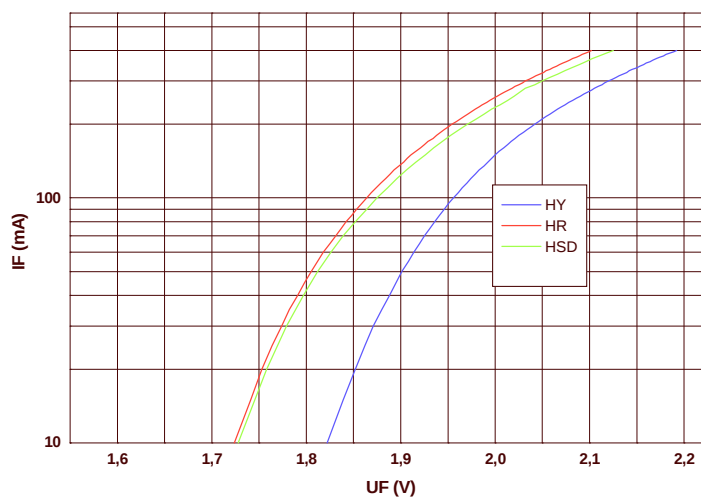
Maximal forward current (DC) characteristic

Electro-Optical Characteristics

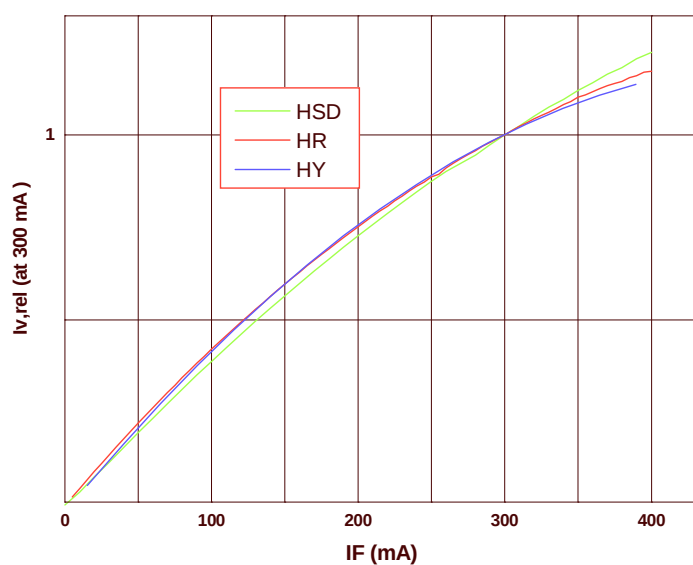
Type	Emitting color	Marking at	measured at I_F [mA]	V_F [V]		λ_d / λ_p^* [nm]	I_V [mcd]		Φ_V [mlm]	
				typ	max		min	typ	min	typ
OHL-605 HY	hyper yellow	cathode	300	2,15	2,6	590	900	1900	9900	21000
OHL-605 HSD	hyper TSN red	cathode	300	2,1	2,6	625	500	1000	5500	11000
OHL-605 HR	hyper red	cathode	300	2,1	2,6	632	500	1000	5500	11000



view angle

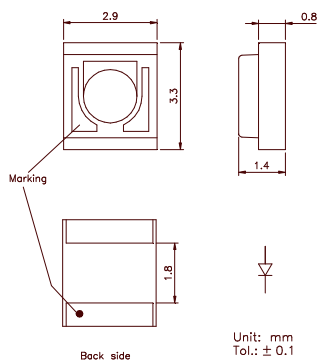


$U_F - I_F$
characteristic

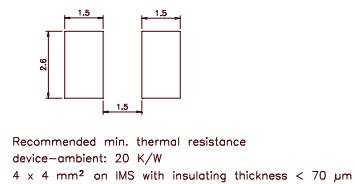


$I_F - I_{v, rel}$
characteristic

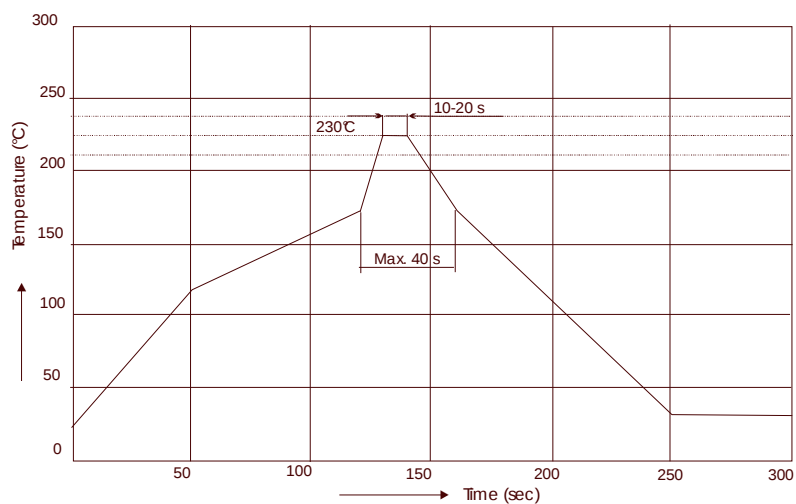
Outline Drawing



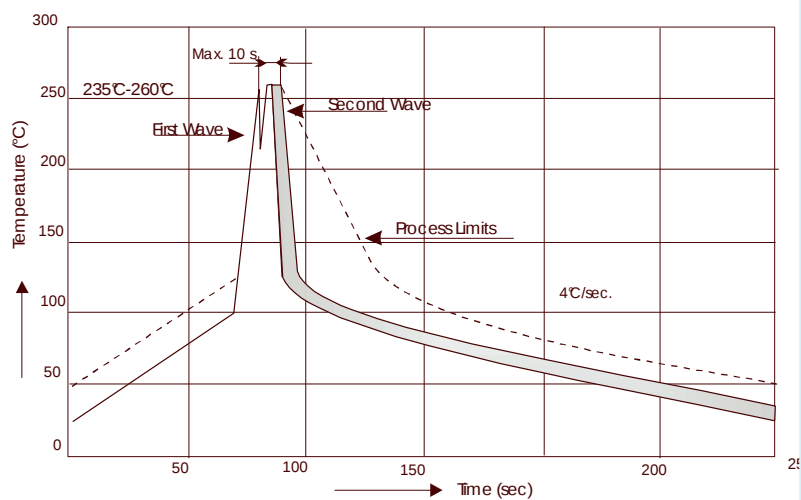
Recommended Soldering Patterns



Soldering Conditions



IR reflow
soldering
profile



Wave
soldering
profile

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

Ordering Code For Parts

Series Color Encapsulation Packaging

OHL-605 - ??????? - X - T

T - taped

X - uncolored clear

Type definition, e.g. OHL-605 HY-X -T

LED Luminous Intensity Groups And Subgroups [mcd]

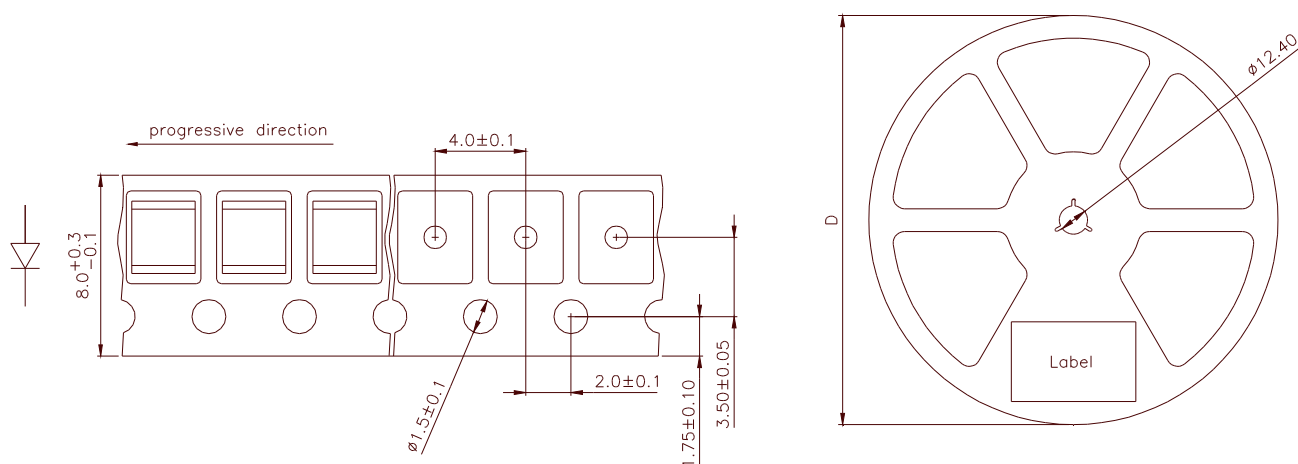
(general information – not this device specific)

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 ± 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	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-605 ?????-??-T

Intensity group ZZ Color class: CC

Color class - optional

Charge No. 1122-AAAAAA

11 Week – 22 year – A internal identification

Quantity 9999