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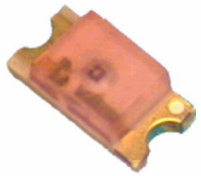
Series 150 - 1206 Standard

red 650 nm

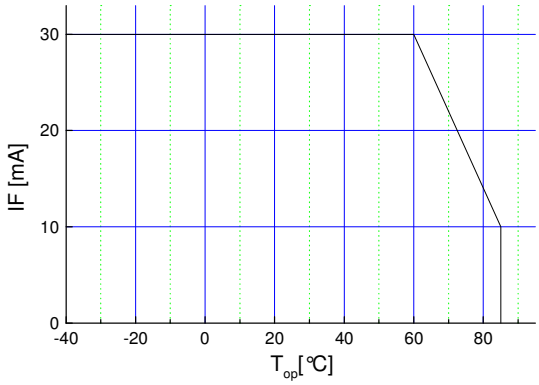


Features

- size 1206: 3,2(L) x 1,6(W) x 1,2(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
- taping: face-up (T) or face-down (TD) possible
- high luminous intensity types

Absolute Maximum Ratings

$I_{F,max}$[mA]	$I_{F,P}$ [mA] tp ≤ 100 µs τ=1: 10	V_R [V]	$I_{R,max}$ [µA]	Thermal resistance R_{thJA} [K / W]	T_{Op} [°C]	T_{St} °[C]
30	100	5	100	450	-40...85	-55...85



Maximal forward current (DC) characteristic

Electro-Optical Characteristics

Type	Emitting color	Marking at	Measurement I_F [mA]	V_F[V] typ	V_F[V] max	λ_d / λ_p* [nm]	I_V[mcd] min	I_V[mcd] typ
OLS-150 UR	red	anode	20	1,9	2,6	650 *	15	35
OLS-150 SR	red	anode	20	1,9	2,6	655 *	8.0	20

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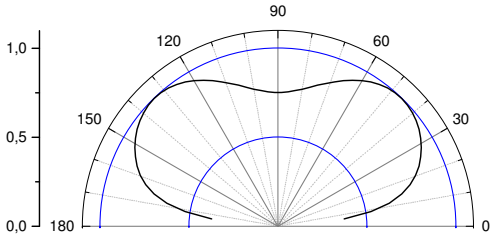
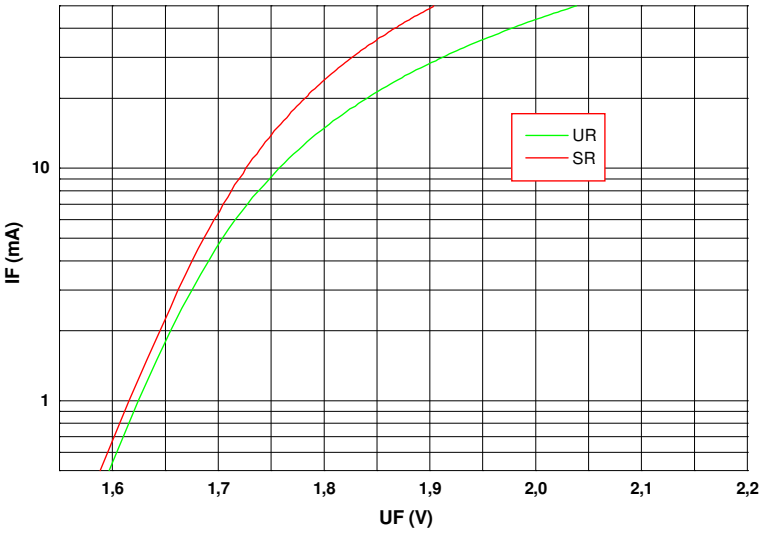
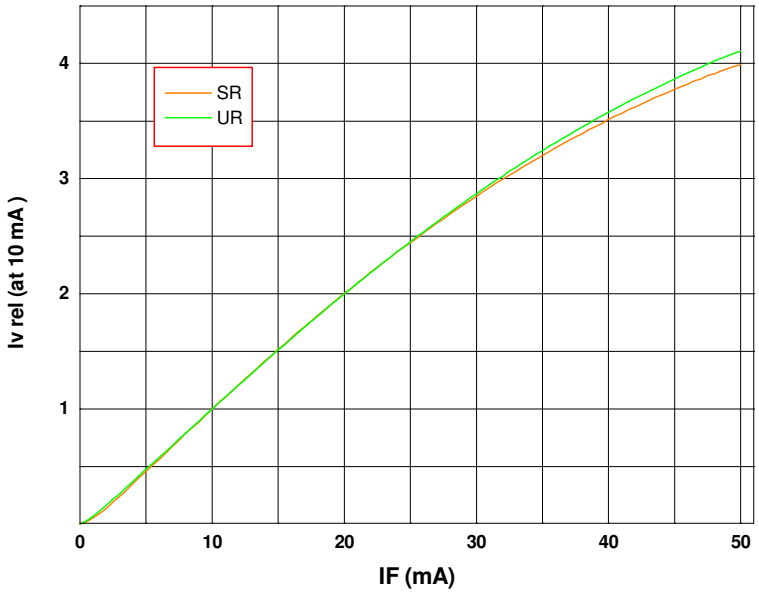


view angle



$U_F - I_F$ characteristic



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

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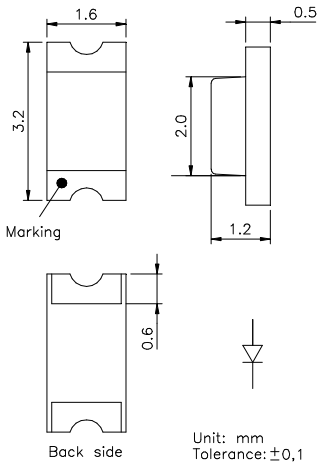
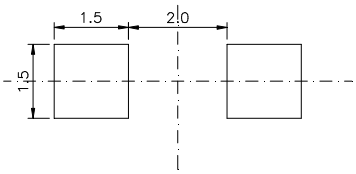
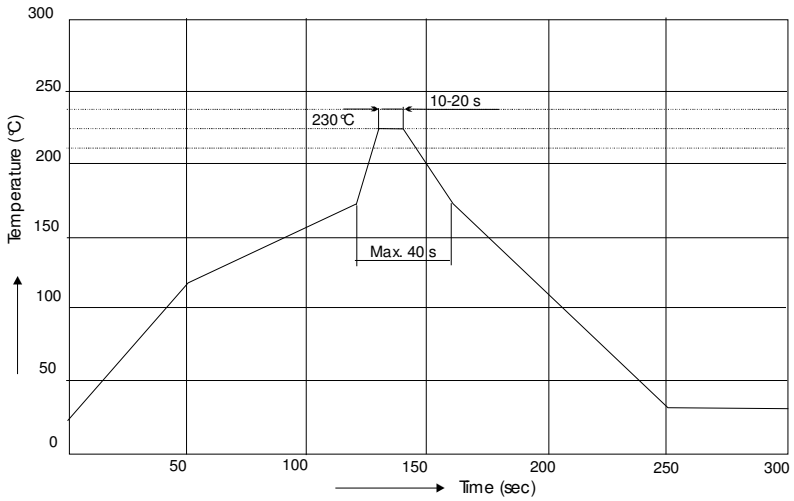
Outline Drawing



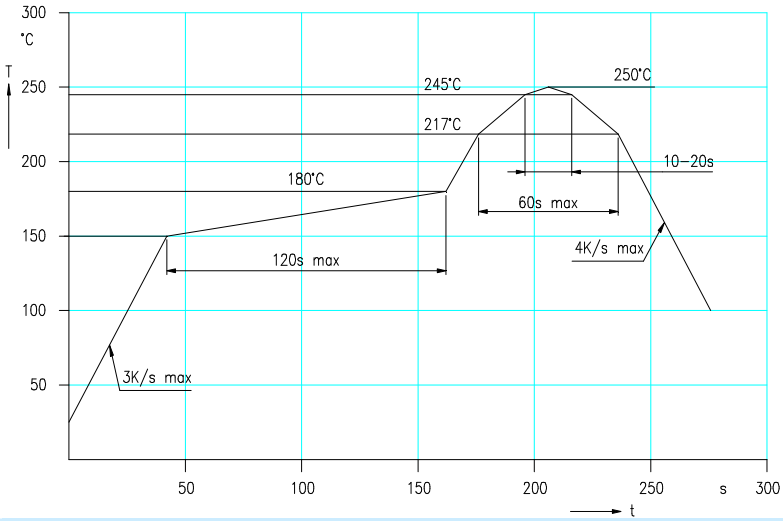
Recommended Soldering Patterns



Soldering Conditions



IR reflow soldering profile



IR reflow soldering profile for lead free soldering

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

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Ordering Code For Parts

Series		Color		Encapsulation		Packaging
OLS-150	-	???????	-	?	-	?

T - taped up
TD - taped down

CD - colored diffused (standard)
XD - uncolored diffused
C - colored clear
X - uncolored clear

Type definition, e.g. OLS-150 UR-CD-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).

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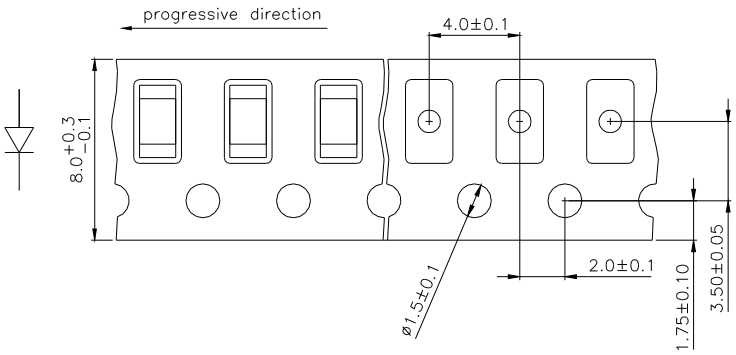
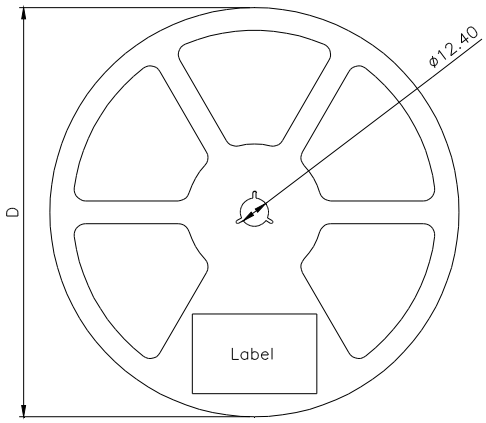
Tape And Reel Packing





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-150 ?????-??-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!

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