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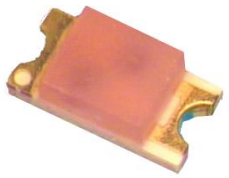
Series 152 - 1206 - Bipolar monocolor

High luminous intensity

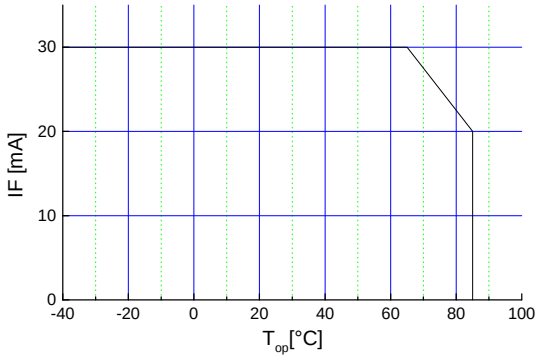


Features

- 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
- all devices sorted into luminous intensity classes
- taping: face-up (TU) or face-down (TD) possible
- high luminous intensity types
- on request sorted in color classes

Absolute Maximum Ratings

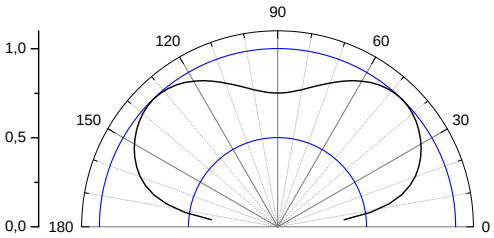
$I_{F,max}$[mA]	$I_{F,P}$ [mA] tp ≤ 100 µs τ=1: 10	V_R [V]	$I_{R,max}$ [µA]	Thermal resistance R_{thJA} [K / W]	T_{Op} [°C]	T_{St} °[C]
30	100			450	-40...85	-40...85



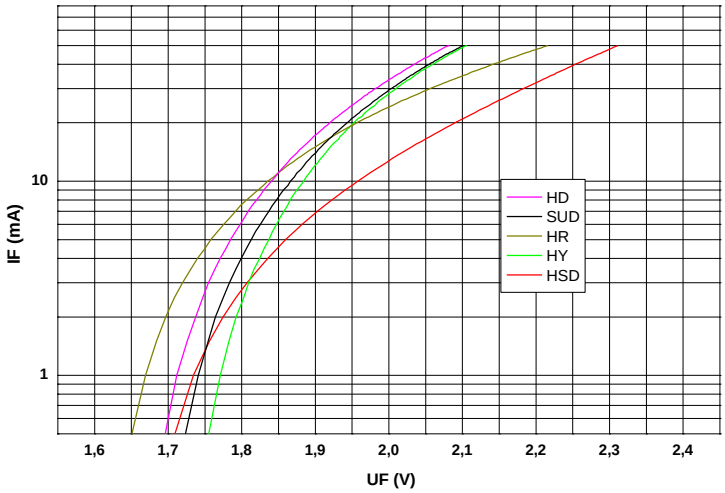
Maximal forward current (DC) characteristic

Electro-Optical Characteristics

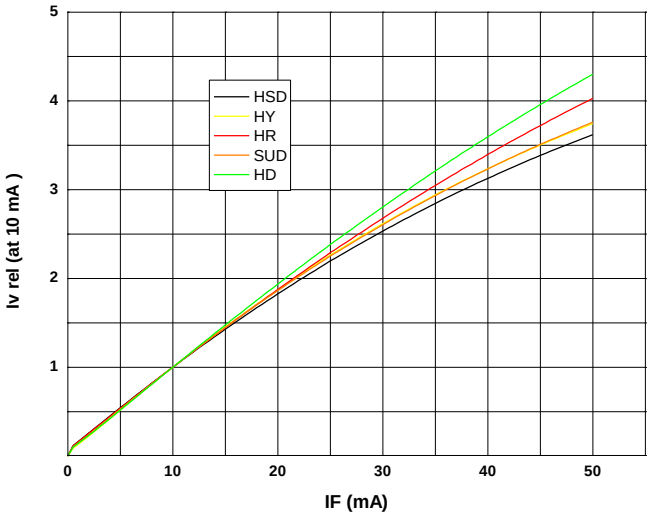
Type	Emitting color	Marking at	Measurement I_F [mA]	V_F[V] typ	V_F[V] max	λ_d / λ_p* [nm]	I_V[mcd] min	I_V[mcd] typ
OLS-152 HY/HY	hyper yellow	-	20	2.0	2.6	590	60	150
OLS-152 SUD/SUD	super orange	-	20	2.0	2.6	605	60	130
OLS-152 HD/HD	hyper orange	-	20	2.0	2.6	615	60	150
OLS-152 HSD/HSD	hyper TSN red	-	20	2.1	2.6	625	60	120
OLS-152 HR/HR	hyper red	-	20	2.0	2.6	632	40	85



view angle

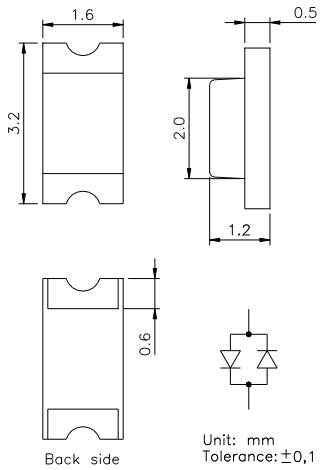


U_F – I_F characteristic

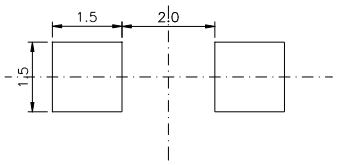


I_F – $I_{v,\,rel}$ characteristic

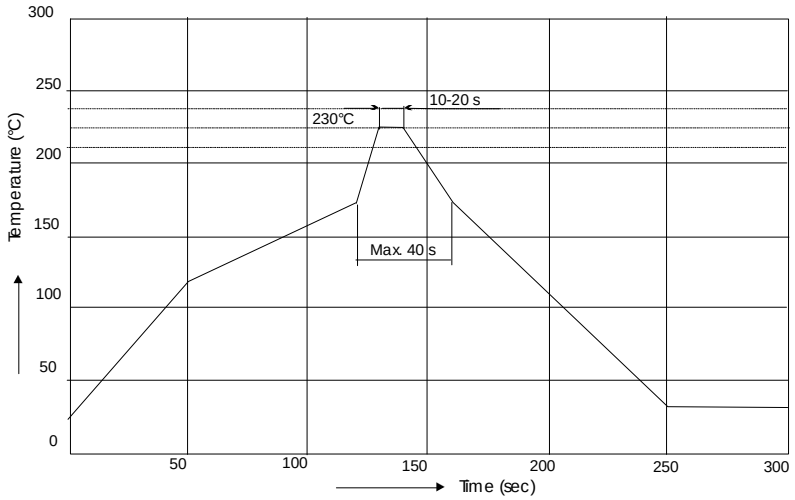
Outline Drawing



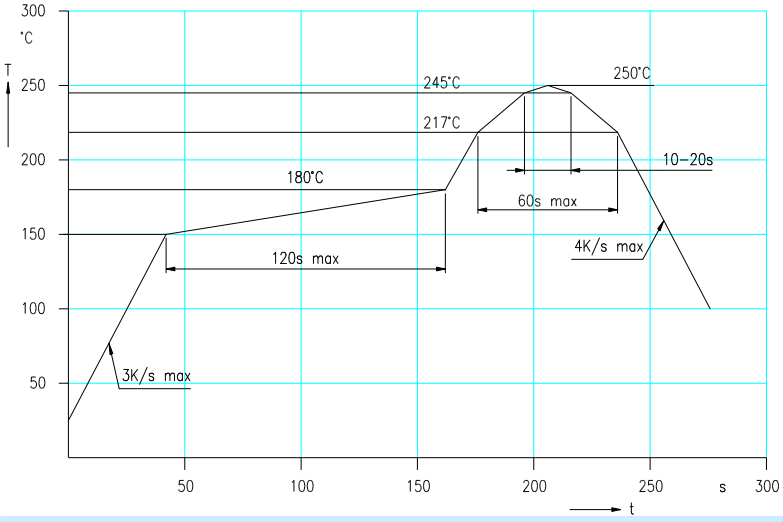
Recommended Soldering Patterns



Soldering Conditions



IR reflow soldering profile



IR reflow soldering profile for lead free soldering

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

Ordering Code For Parts

Series		Color		Encapsulation		Packaging
OLS-152	-	???????	-	?	-	?

TU - taped up
TD - taped down

C - colored (standard) possible for red. green. blue
XD - uncolored diffused
CD - colored diffused possible for red. green. blue
X - uncolored clear

Type definition, e.g. OLS-152 HY/HY-C -TU

LED Luminous Intensity Groups And Subgroups [mcd]

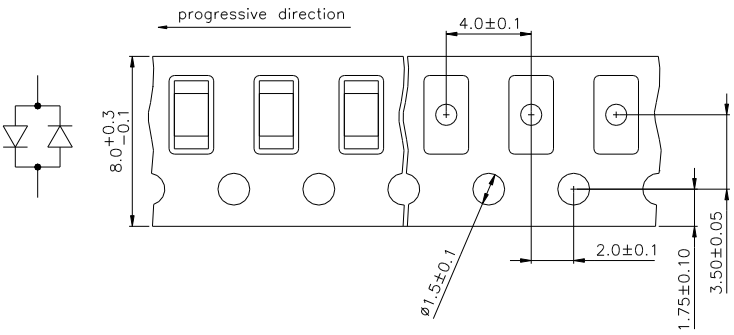
(general information – not this device specific)

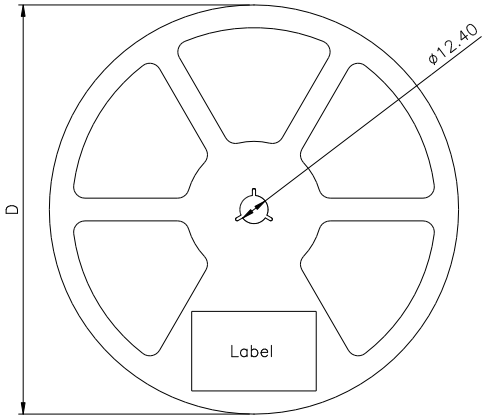
C:	0.28	-	0.45	C1:	0.28	-	0.36	P1:	45	-	56
D:	0.45	-	0.71	C2:	0.36	-	0.45	P2:	56	-	71
E:	0.71	-	1.12	D1:	0.45	-	0.56	Q1:	71	-	90
F:	1.12	-	1.80	D2:	0.56	-	0.71	Q2:	90	-	112
G:	1.80	-	2.80	E1:	0.71	-	0.90	R1:	112	-	140
H:	2.80	-	4.50	E2:	0.90	-	1.12	R2:	140	-	180
J:	4.50	-	7.10	F1:	1.12	-	1.40	S1:	180	-	224
K:	7.10	-	11.20	F2:	1.40	-	1.80	S2:	224	-	280
L:	11.20	-	18.00	G1:	1.80	-	2.24	T1:	280	-	355
M:	18	-	28	G2:	2.24	-	2.80	T2:	355	-	450
N:	28	-	45	H1:	2.80	-	3.55	U1:	450	-	560
P:	45	-	71	H2:	3.55	-	4.50	U2:	560	-	710
Q:	71	-	112	J1:	4.50	-	5.60	V1:	710	-	900
R:	112	-	180	J2:	5.60	-	7.10	V2:	900	-	1120
S:	180	-	280	K1:	7.10	-	9.00	W1:	1120	-	1420
T:	280	-	450	K2:	9.00	-	11.20	W2:	1420	-	1800
U:	450	-	710	L1:	11.20	-	14.00	X1:	1800	-	2250
V:	710	-	1120	L2:	14.00	-	18.00	X2:	2250	-	2800
W:	1120	-	1800	M1:	18.00	-	22.40	Y1:	2800	-	3550
X:	1800	-	2800	M2:	22.40	-	28.00	Y2:	3550	-	4500
Y:	2800	-	4500	N1:	28.00	-	35.50	Z1:	4500	-	5750
Z:	4500	-	7100	N2:	35.50	-	45.00	Z2:	5750	-	7100

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	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-152 ?????-??-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. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer. OSA opto light does not have the responsibility for the reliability and the degradation behaviour of products made with OSA opto light diodes because they depend not only on the diode but also on the conditions of manufacture or design of the final products.

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!