

Series 180 - 0805 lower height

white

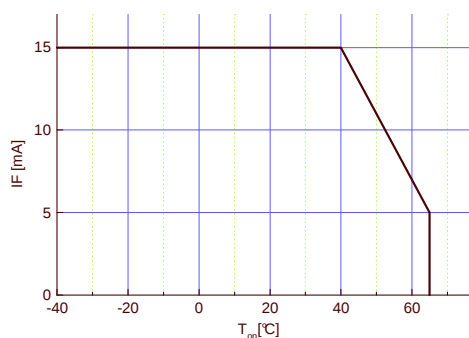


Features

- size 0805: 2,0(L) x 1,2(W) x 0,9(H) mm
- circuit substrate: glass laminated epoxy
- 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
- (Ga,In)N / SiC - Chip type with phosphor
- high luminous intensity types
- on request sorted in color-temperatur (CCT) classes

Absolute Maximum Ratings

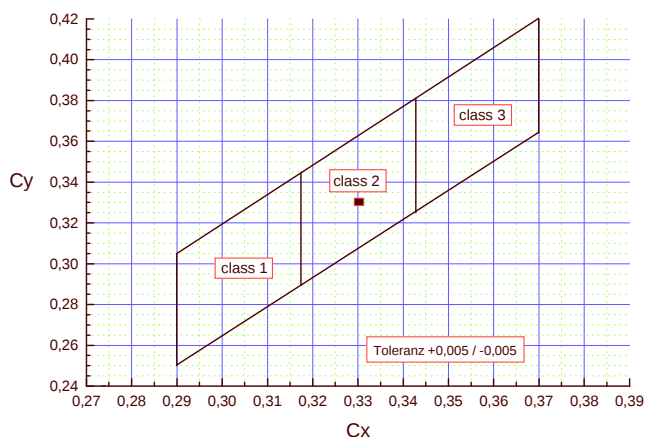
$I_{F, max}$ [mA]	$I_{F,P}$ [mA] $t_p \leq 100 \mu s$ $\tau=1: 10$	V_R [V]	$I_{R, max}$ [μ A]	Thermal resistance R_{thJA} [K / W]	T_{Op} [$^{\circ}$ C]	T_{St} [$^{\circ}$ C]
15	30	5	100	500	-40...65	-55...85



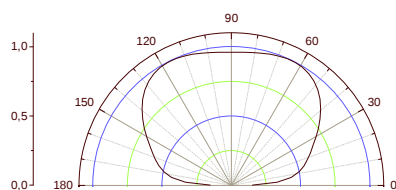
Maximal
forward current
(DC)
characteristic

Electro-Optical Characteristics

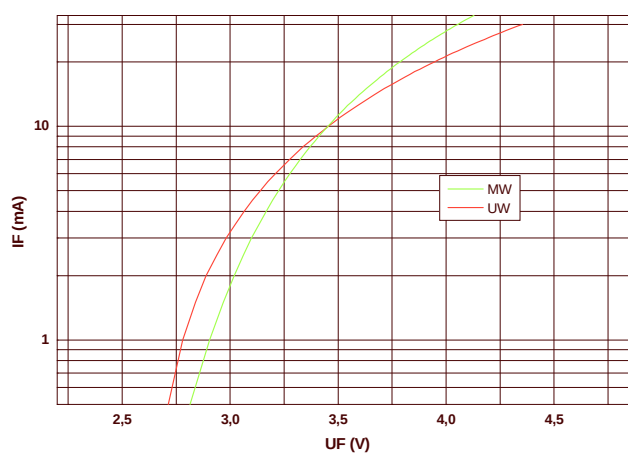
Type	Emitting color	Marking at	Measurement I_F [mA]	V_F [V]		color coordinates	I_V [mcd]	
				typ	max		min	typ
OLS-180 UW	white	cathode	15	3,7	4,5	0,32/0,33	30	70
OLS-180 MW	white	cathode	15	3,7	4,5	0,32/0,33	70	150



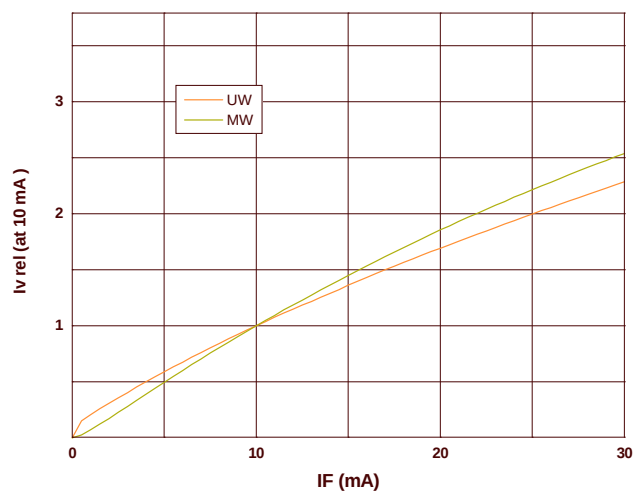
color
coordinates
classes



view angle

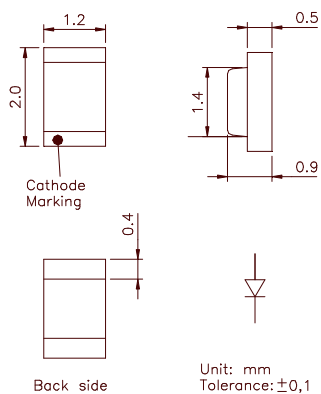


$U_F - I_F$
characteristic

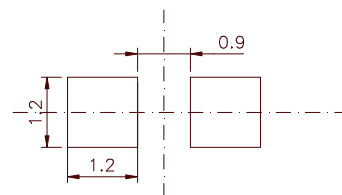


$I_F - I_{v,rel}$
characteristic

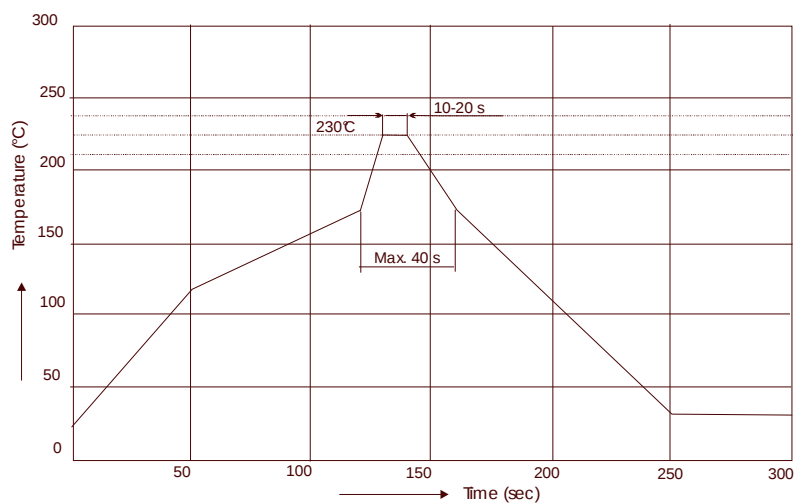
Outline Drawing



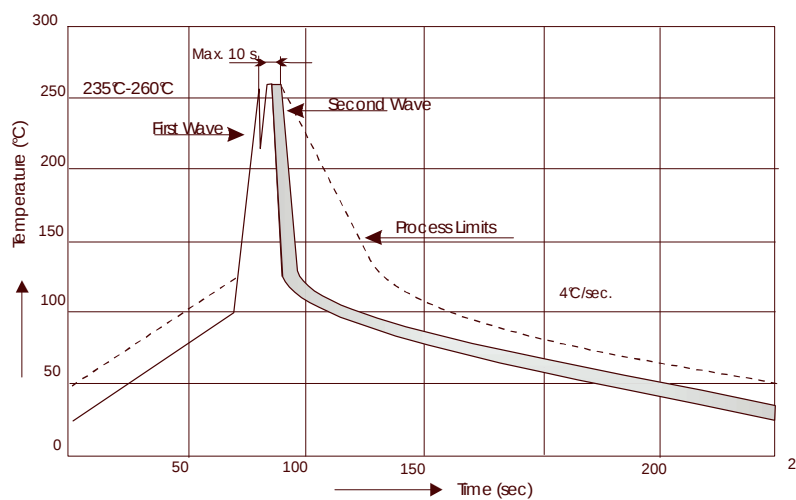
Recommended Soldering Patterns



Soldering Conditions



IR reflow
soldering
profile



Wave soldering
profile

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

Ordering Code For Parts

<u>Series</u>	<u>Color</u>	<u>Encapsulation</u>	<u>Packaging</u>
OLS-180	-	XD	T
	???????	-	T - taped
		XD - uncolored diffused	

Type definition, e.g. OLS-180 UW-XD-T

LED Luminous Intensity Groups And Subgroups [mcd]

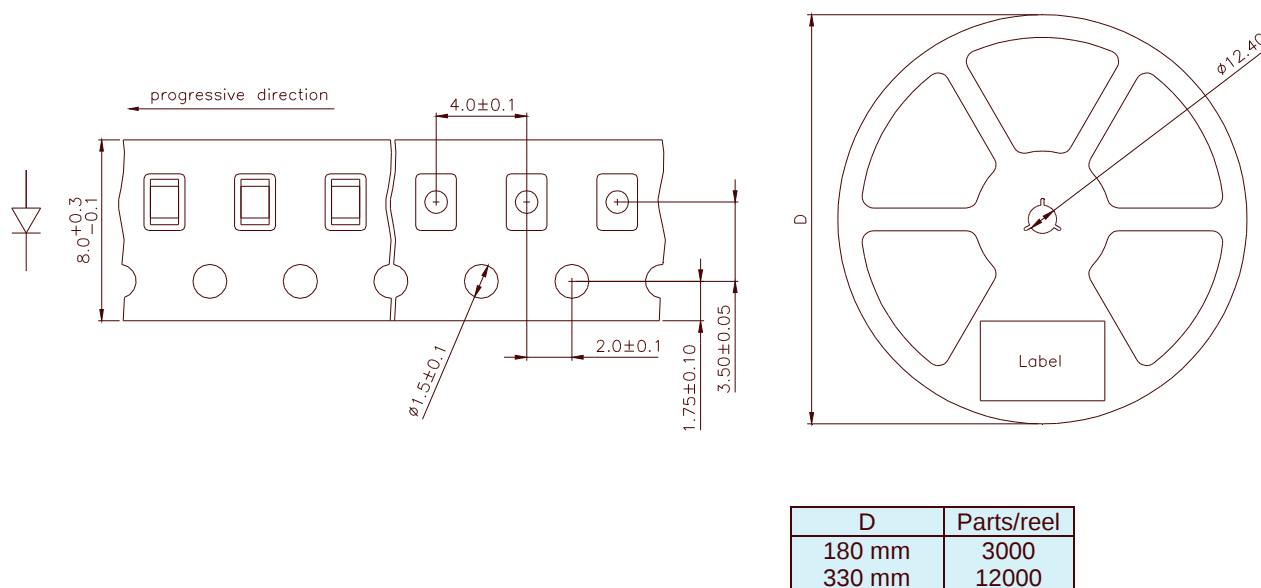
(general information – not this device specific)

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 subselections possible.
Color selection in 3 subselections possible (each subgroup per reel).**

Tape And Reel Packing



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 OLS-180 ?????-??-T

Intensity group ZZ Color class: CC

Color class - optional

Charge No. 1122-AAAAAA

11 Week – 22 year – A internal identification

Quantity 9999