

Series 180 - 0805 lower height

white

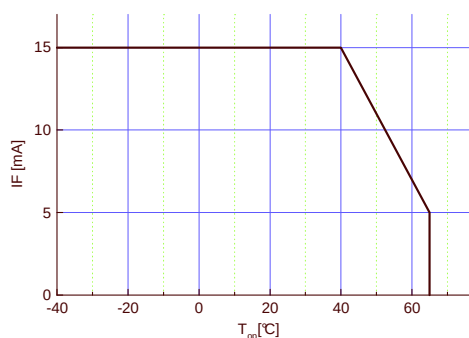


Features

- 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

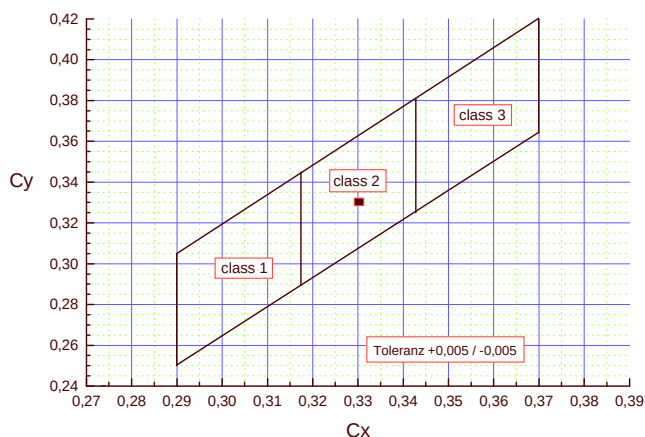
$I_{F, max}$ [mA]	$I_{F,P}$ [mA] $t_p \leq 100 \mu s$ $\tau=1: 10$	V_R [V]	$I_{R, max}$ [μ A]	Thermal resistance R_{thJA} [K / W]	T_{Op} [$^{\circ}$ C]	T_{St} [$^{\circ}$ C]
15	30	5	100	500	-40...65	-55...85



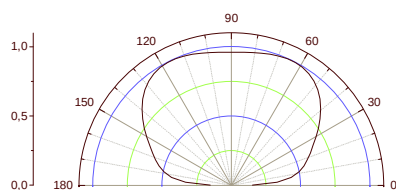
Maximal
forward current
(DC)
characteristic

Electro-Optical Characteristics

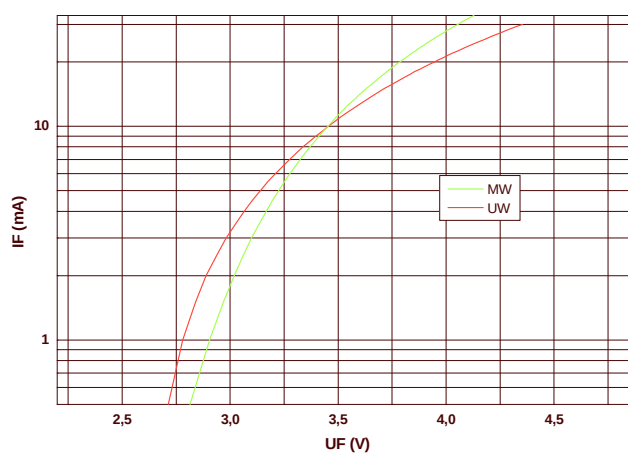
Type	Emitting color	Marking at	Measurement I_F [mA]	V_F [V]		color coordinates	I_V [mcd]	
				typ	max		min	typ
OLS-180 UW	white	cathode	15	3,7	4,5	0,32/0,33	30	70
OLS-180 MW	white	cathode	15	3,7	4,5	0,32/0,33	70	150



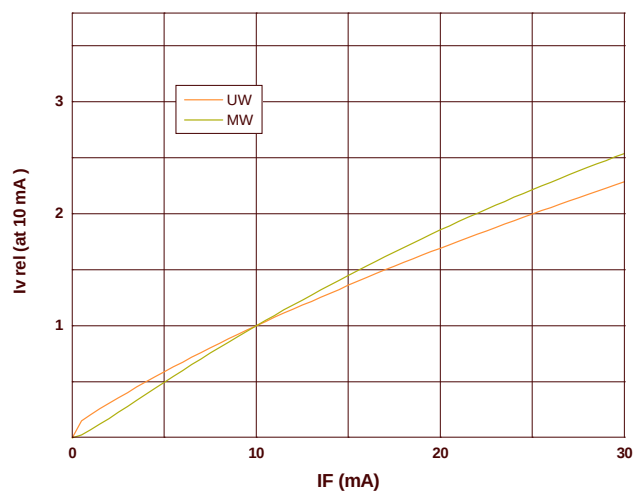
color
coordinates
classes



view angle

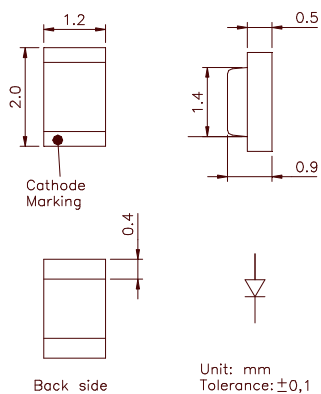


$U_F - I_F$
characteristic

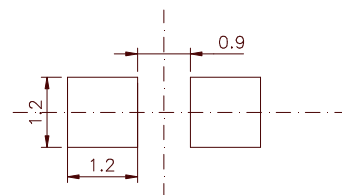


$I_F - I_{v,rel}$
characteristic

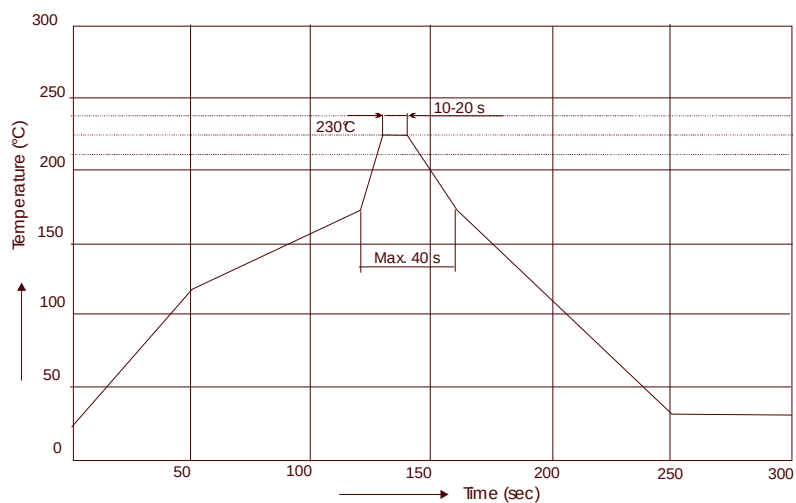
Outline Drawing



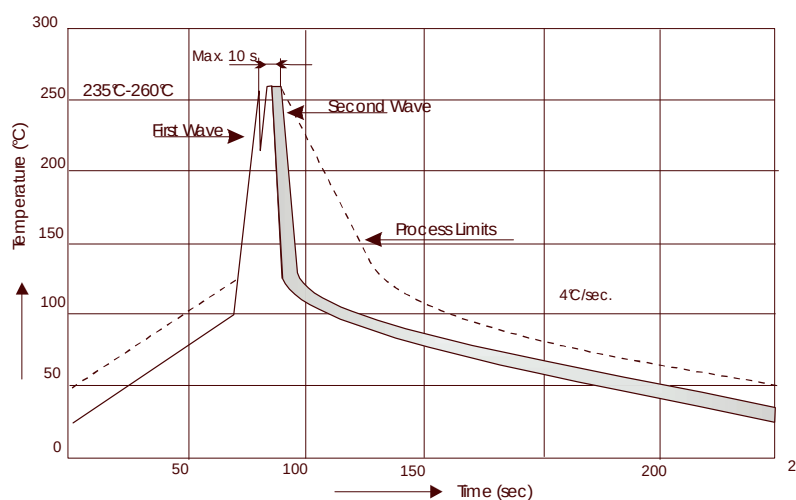
Recommended Soldering Patterns



Soldering Conditions



IR reflow
soldering
profile



Wave soldering
profile

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

Ordering Code For Parts

Series	Color	Encapsulation	Packaging
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]

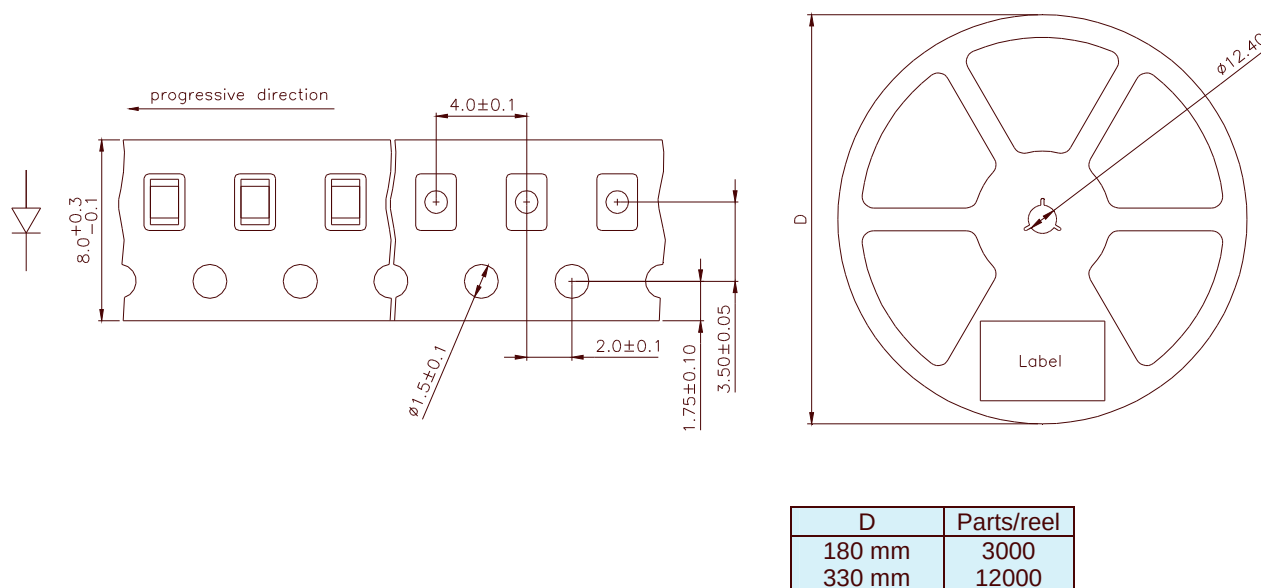
(general information – not this device specific)

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