

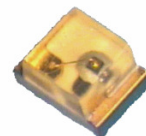
Series 170 - 0805 Standard

IR high intensity 885-950 nm

preliminary

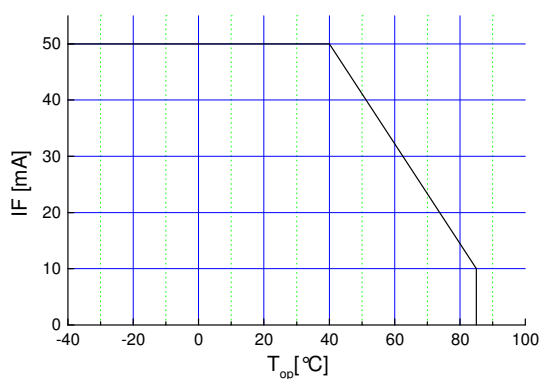
Features

- size 0805: 1,9(L) x 1,2(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
- high radiation intensity type



Absolute Maximum Ratings

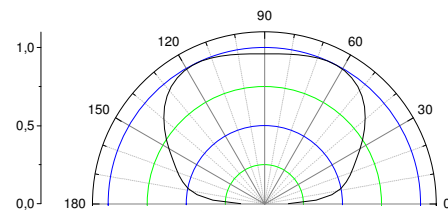
$I_{F, max}$ [mA]	$I_{F, P}$ [mA] $t_p \leq 100 \mu s$ $\tau = 1:10$	V_R [V]	$I_{R, max}$ [μA]	Thermal resistance R_{thJA} [K / W]	T_{Op} [$^{\circ}C$]	T_{St} [$^{\circ}C$]
50	250	5	100	500	-40...85	-55...85



Maximal
forward
current (DC)
characteristic

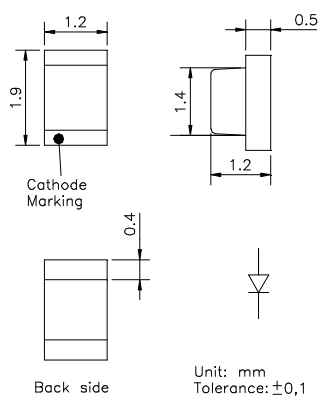
Electro-Optical Characteristics

Type	Marking at	Measurement I_F [mA]	Switching time (rise & fall)		V_F [V]		λ_p	I_e [mW/sr]	
			typ [ns]	max [ns]	typ	max	[nm]	min	typ
OIS-170 885	cathode	50	30	120	1,3	1,6	885 ± 10	1.5	3.0
OIS-170 905	cathode	50	300	1200	1,3	1,6	905 ± 10	1.6	3.2
OIS-170 920	cathode	50	300	1200	1,3	1,6	920 ± 10	1.6	3.2
OIS-170 950	cathode	50	500	2000	1,3	1,6	950 ± 10	0.5	1.3

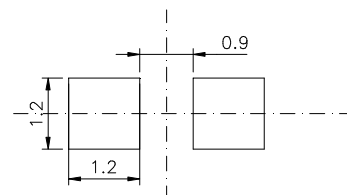


view angle

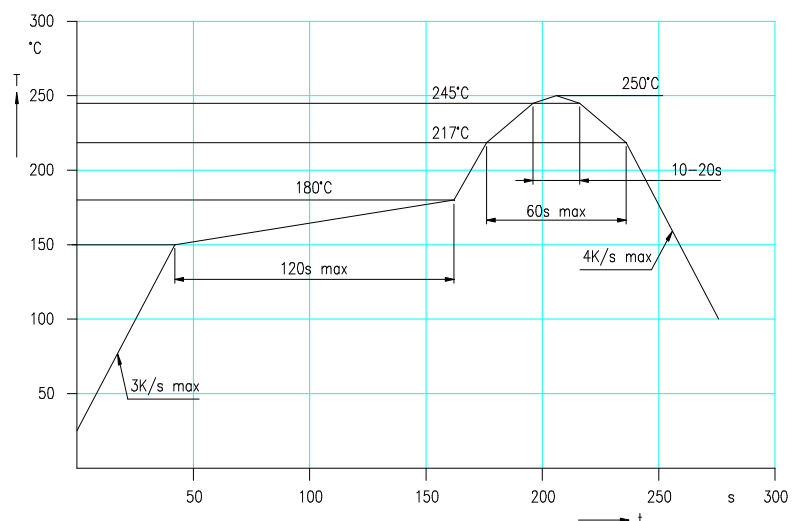
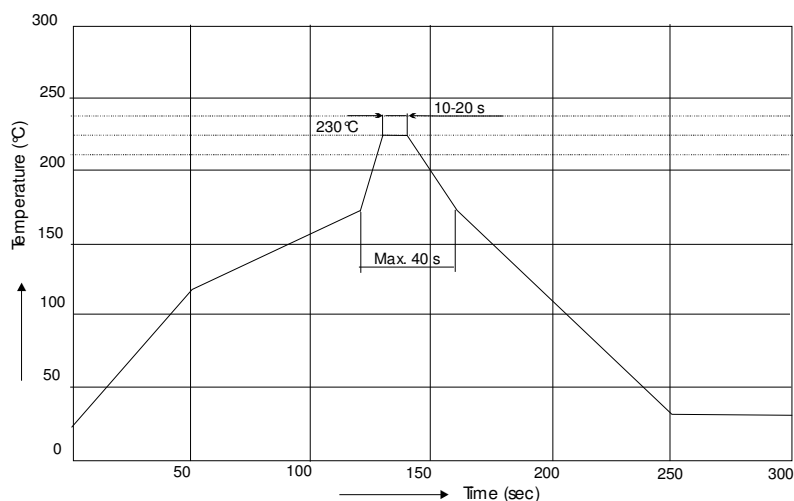
Outline Drawing



Recommended Soldering Patterns



Soldering Conditions



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

Ordering Code For Parts

Series		Color		Encapsulation		Packaging
OIS-170	-	???????	-	X	-	T
						T - taped
				X - uncolored clear		

Type definition, e.g. OIS-170 885-X -T

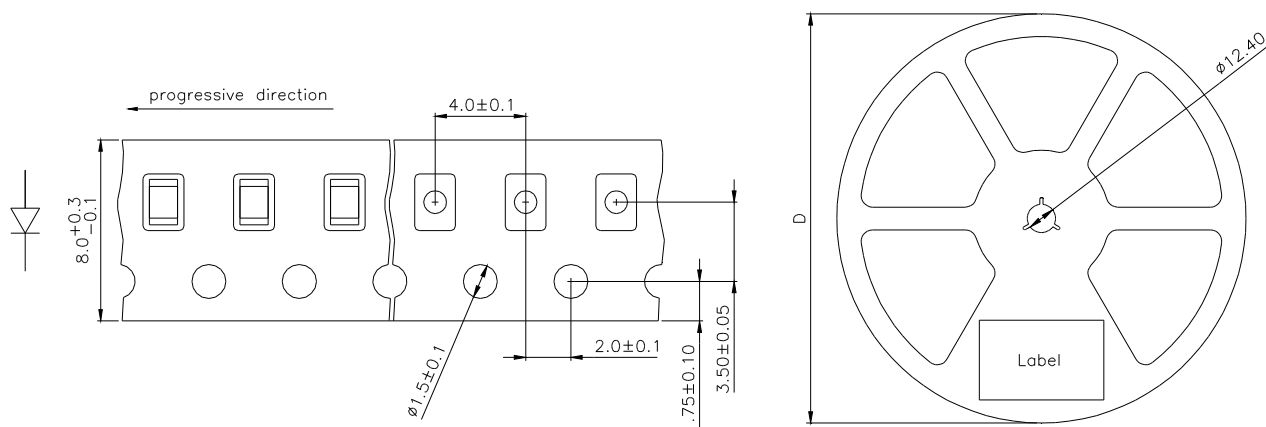
LED Luminous Intensity Groups And Subgroups [mW/sr]

(general information – not this device specific)

C:	0.28	-	0.45	C1:	0.28	-	0.36	J1:	4.50	-	5.60
D:	0.45	-	0.71	C2:	0.36	-	0.45	J2:	5.60	-	7.10
E:	0.71	-	1.12	D1:	0.45	-	0.56	K1:	7.10	-	9.00
F:	1.12	-	1.80	D2:	0.56	-	0.71	K2:	9.00	-	11.20
G:	1.80	-	2.80	E1:	0.71	-	0.90	L1:	11.20	-	14.00
H:	2.80	-	4.50	E2:	0.90	-	1.12	L2:	14.00	-	18.00
J:	4.50	-	7.10	F1:	1.12	-	1.40	M1:	18.00	-	22.40
K:	7.10	-	11.20	F2:	1.40	-	1.80	M2:	22.40	-	28.00
L:	11.20	-	18.00	G1:	1.80	-	2.24	N1:	28.00	-	35.50
M:	18	-	28	G2:	2.24	-	2.80	N2:	35.50	-	45.00
N:	28	-	45	H1:	2.80	-	3.55	P1:	45.00	-	56.00
P:	45	-	71	H2:	3.55	-	4.50	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 %.

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
Type OIS-170 ?????-??-T
Intensity group ZZ
Charge No. 1122-AAAAAA
Quantity 9999

Customer order No.

11 Week – 22 year – A internal identification

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!