

## DATASHEET

# OLS-130 EB630/EB570

**Double Chip Red and Green LED with flat top**

### Features:

- Footprint: 1206 Side-LED
- Size: 3.2(L) x 1.6(W) x 0.8(H) mm
- Circuit substrate: glass laminated epoxy
- ROHS and REACH compliant
- Lead-free solderable
- Taped in 8 mm blister tape

### Applications:

- Sensors
- Indicators

## • Typical Electro-Optical Characteristics

Measurement conditions

$T_{\text{ambient}} = 23\text{ °C}$ ;  $t_{\text{test}} \leq 60\text{ ms}$

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Emitting Color				<b>Green</b>		
Forward Voltage	$V_f$	$I_f = 20\text{ mA}$		2	2.5	V
Peak Wavelength	$\lambda_p$	$I_f = 20\text{ mA}$		572		nm
Dominant Wavelength	$\lambda_d$	$I_f = 20\text{ mA}$	565	570	576	nm
FWHM	$\Delta\lambda$	$I_f = 20\text{ mA}$		16		nm
Luminous Intensity	$I_v$	$I_f = 20\text{ mA}$	25	40		mcd
View Angle	$\theta$	$I_f = 20\text{ mA}$		140		deg.
Reverse Current	$I_R$	$V_R = 5\text{ V}$			10	$\mu\text{A}$

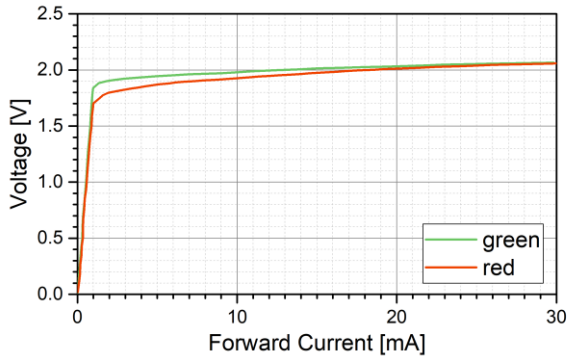
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Emitting Color				<b>Red</b>		
Forward Voltage	$V_f$	$I_f = 20\text{ mA}$		2	2.5	V
Peak Wavelength	$\lambda_p$	$I_f = 20\text{ mA}$		640		nm
Dominant Wavelength	$\lambda_d$	$I_f = 20\text{ mA}$	625	630	635	nm
FWHM	$\Delta\lambda$	$I_f = 20\text{ mA}$		18		nm
Luminous Intensity	$I_v$	$I_f = 20\text{ mA}$	40	70		mcd
View Angle	$\theta$	$I_f = 20\text{ mA}$		140		deg.
Reverse Current	$I_R$	$V_R = 5\text{ V}$			10	$\mu\text{A}$

## • Maximum Ratings

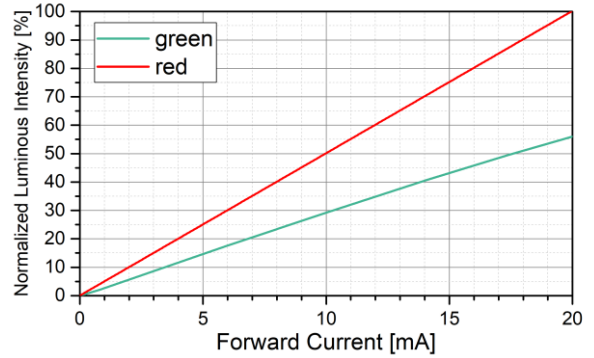
Parameter	Symbol	Min	Max	Unit
Forward Current	$I_{f, \text{max}}$		30	mA
Forward Current, pulsed	$t_p \leq 1\text{ ms}, \tau = 1:8$ $I_{f, \text{pulse}}$		125	mA
Thermal Resistance	$R_{\text{th, js}}$		450	K/W
Max. Power Dissipation	$P_D$		75	mW
Reverse Voltage	$V_R$		5	V
Operating Temperature	$T_{\text{op}}$	-40	+80	°C
Storage Temperature	$T_{\text{st}}$	-40	+85	°C



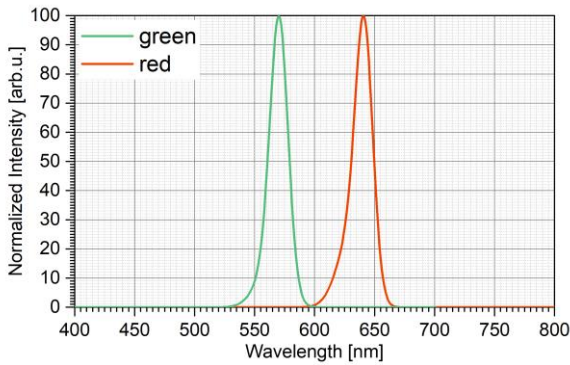
## • Typical Performance



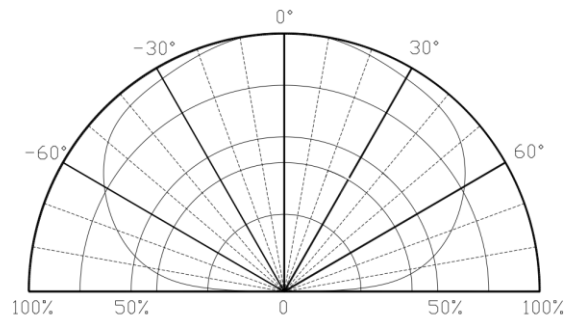
**Forward Current vs. Forward Voltage**



**Forward Current vs. Normalized Intensity**



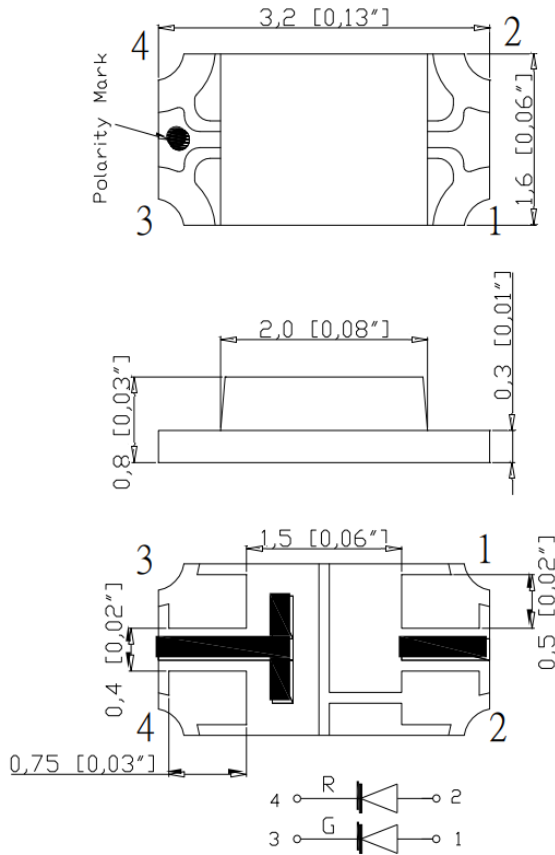
**Optical Spectrum**



**Viewing Angle**

## • Outline Drawing

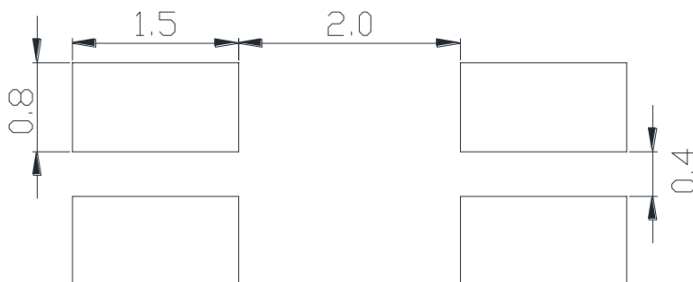
Unless otherwise specified, all drawing units are in mm  
Tolerances are: ISO 2768-m



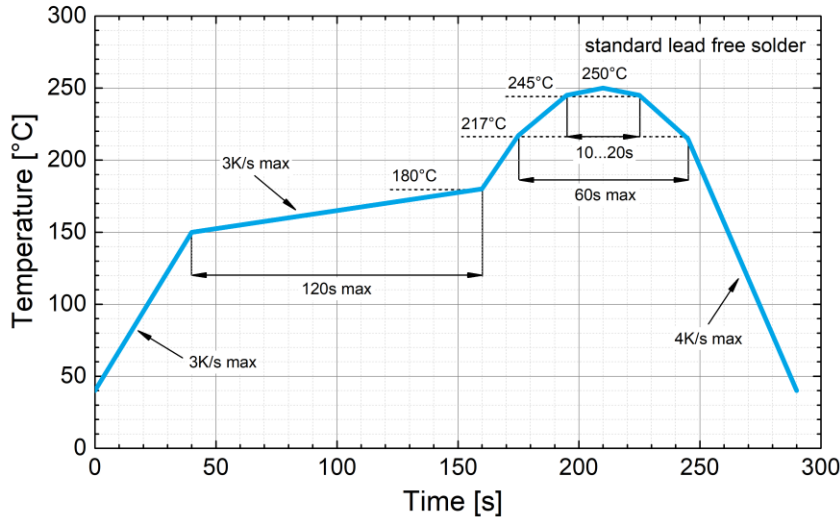
Marking at the cathode side.

## • Recommended soldering pad

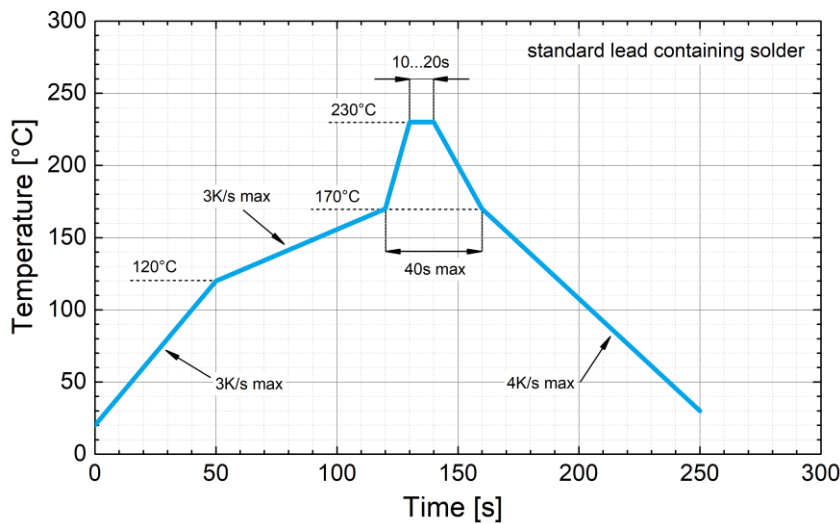
Unless otherwise specified, all drawing units are in mm



## • Soldering Profile



Recommended soldering profile for lead free soldering

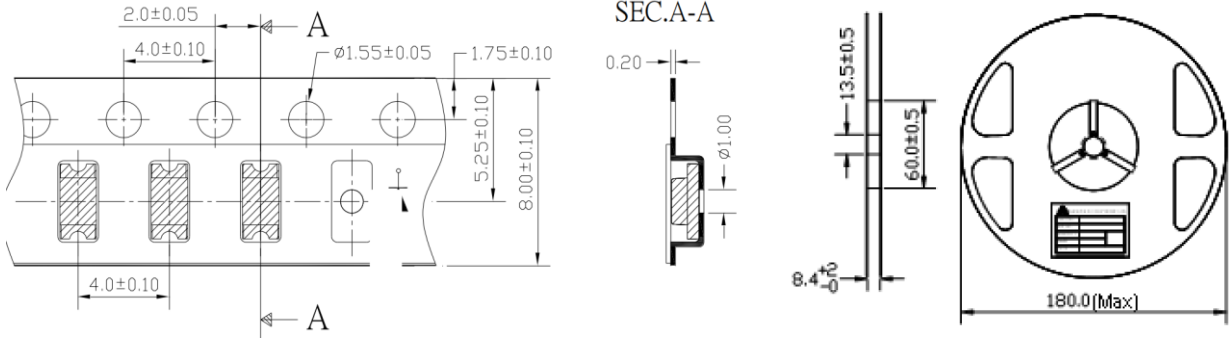


Recommended soldering profile for solder containing lead

### Manual Soldering:

Maximum soldering iron power, temperature and time 25 W / 300 °C for 3 s.

• **Tape And Reel Packaging**



D	Parts/reel
7"	3000

**Packaging**

The reel is sealed in special plastic bag with integrated ESD protection including a silica dry-pack. Shelf life for sealed bag: 12 month on max. 30 °C and 60% Rh. Other bags (i.e. MBB, HIC, Vacuum pack, etc.) available on request.

## • Notice

The information describes the type of component and shall not consider as assured characteristics. Terms of delivery and rights to change reserved. The data sheet may change without prior notification; The only valid issue and current revision will be on our website. Due to technical requirements, components may contain dangerous substances.

It is the responsibility of the customer to evaluate and ensure that the use of the products in their specific applications complies with relevant safety standards and regulations. Customers must assess the exposure conditions within their systems and ensure that appropriate measures are taken to prevent exceeding the permissible exposure limits outlined in IEC 62471. EPIGAP OSA Photonics GmbH does not assume liability for any non-compliance arising from the integration or usage of LEDs in customer systems.

Parameters can vary in different applications. The customer must validate all operating parameters for each customer application. EPIGAP OSA Photonics GmbH does not have the responsibility for the reliability and the degradation behavior of products made with EPIGAP OSA Photonics GmbH diodes because they depend not only on the diode but also on the conditions of manufacture or design of the final products. The customer is responsible to ensure the long-term stability of the product according to customer's requirements. If components are used in toys or, life support systems, then EPIGAP OSA Photonics GmbH must expressly authorize use of components prior to incorporation into the customer's systems!

Packaging: EPIGAP OSA Photonics GmbH uses recyclable packages; please use the recycling operators known to you.

## EPIGAP OSA Photonics GmbH

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