

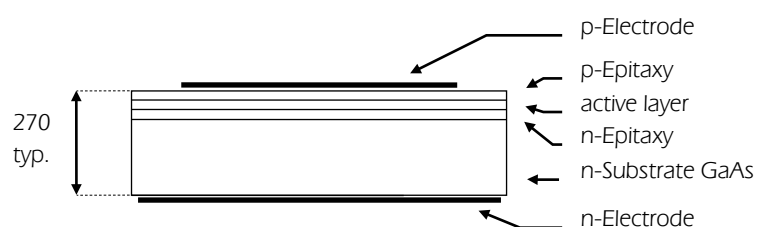
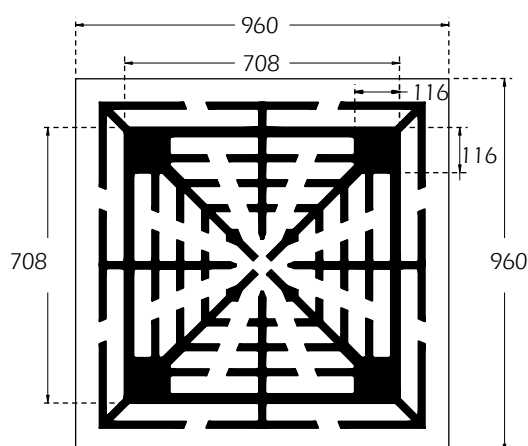
## • Mechanical Specification:

### Dimension

- Chip size: 960 x 960 $\mu\text{m}$
- Thickness: typ. 270 $\mu\text{m}$

### Electrodes / Metallization

- p-side (anode): Au alloy
- n-side (cathode) Au alloy



## • Electrical and Optical Characteristics (T=25°C):

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_{f1}$	$I_f = 100\text{mA}$		1.15	1.25	V
	$V_{f2}$	$I_f = 350\text{mA}$		1.20	1.40	V
Reverse Current	$I_r$	$V_r = 5\text{V}$			10	$\mu\text{A}$
Output Power <sup>(1)</sup>	$\Phi_e$	$I_f = 50\text{mA}$		5.0		mW
Radiant Intensity <sup>(1)</sup>	$\Phi_e$	$I_f = 350\text{mA}$		8.5		mW/sr
Switching Time	$t_r, t_f$	$I_f = 350\text{mA}$		20		ns
FWHM	$\frac{1}{2} \lambda_p$	$I_f = 350\text{mA}$		40		nm
Peak Wavelength	$\lambda_p$	$I_f = 350\text{mA}$	1000	1020	1040	nm

NOTE:

(1) Power is measured by OSA on gold plate

High Power / High Speed MQW IR-Chip

**15022XL-1020**

- **Packing / Labeling:**

Dice on adhesive film with wire bond side on top



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**Part No.**   
 1xxxxxx

**BATCH**   
 xxxxx/xx/x

Date: 2011-01-01

@xx mA	min	typ	max
V <sub>f</sub> (V)	x.xx	x.xx	x.xx
Φ <sub>e</sub> (mW)	x.xx	x.xx	x.xx
λ <sub>p/d</sub> (nm)	xxx.x	xxx.x	xxx.x

**Q'TY:**   
 xxx pcs



- **General Remarks:**

“RoHS-compliant”, fulfill the requirements of RoHS Directive 2002/95/EC  
 “REACH- compliant”

We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer. Should the buyer use OSA Opto Light products for any unintended or unauthorized application, the buyer shall indemnify OSA Opto Light against all claims, costs, damages, and expenses, arising out of, directly or indirectly, any claim of personal damage, injury or death associated with such unintended or unauthorized use.

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