**DATA HALL – POLOVODIČ vzorek G2** 19.4.2018

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Měrný odpor** *ρ*  **Hallův koeficient** *RH* **Pohyblivost** *μ* **Koncentrace volných nositelů** **náboje** *n*  *n* =  (n>>p)  *Uσ =* ( Uσ+ - Uσ-) *UH =* [ U(++) – U(+ -) + U(- -) – U(- +)];U(B,I); *rH* | | | | | | | | | |
| ***B*** mT | ***I***  *mA* | **Uσ+**  *mV* | **Uσ-**  *mV* | ***Uσ***  *mV* | **U(++)**  *mV* | **U(+-)**  *mV* | **U(--)**  *mV* | **U(-+)**  *mV* | ***UH***  *mV* |
| 0 | 1,367 | 174,77 | -174,70 |  |  |  |  |  |  |
| 67 | 1,367 |  |  |  | -0,984 | +0,808 | +9,550 | -9,674 |  |
| 107 | 1,367 |  |  |  | +1,519 | -1,717 | +12,109 | -12,222 |  |
| 182 | 1,367 |  |  |  | +5,935 | -6,173 | +16,608 | -16,698 |  |
| 253 | 1,367 |  |  |  | +9,740 | -10,010 | +20,617 | -20,681 |  |
| 406 | 1,367 |  |  |  | +16,613 | -16,948 | +27,851 | -27,869 |  |
| 962 | 1,367 |  |  |  | +35,332 | -35,858 | +48,264 | -48,138 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Geometrie vzorků

*U0=0* *l Uσ*

*a*

Polovodič: *a =* 2,93 mm

*w*= 0,78 mm

**G 2** *l =* 3,25 mm *UH w*

Kov*: a =*

*l =*

*w =*