$Poly_W$ |

| $Poly_{gap}$

$Poly \ R_{sheet} = 25\Omega/sq$

$Min \ feature \ \boldsymbol{\lambda} = 0.5\mu m$

$Min \ Poly_W = 1\mu m = 2\lambda$

$Min \ Poly_{gap} = 1\mu = 2\lambda$

Drain Current (saturation):

$$I_{D_{sat}} = \frac{\beta}{2} * \frac{W}{L} * (V_{GS} - V_{TH})^2 * (1 + 0.01V_{DS})$$

V1

VD

D

S

G

VG

GND

G

D

Poly

SiO2

S

n+

n+

p-

+5V

R

D

G

S

GND