

green white gray

N-Ch Depletion mode MOSFET

Red-S Green-D Blue-G

$V_{gs(on)} = -1.927V$ at $I_d = 5.00mA$ and $I_g = 1\mu A$

$V_{gs(off)} = -2.431V$ at $I_d = 5.1\mu A$

$g_m = 35.5mA/V$ at $I_d = 3.0mA$ to $5.0mA$

$R_{ds(on)} = 13.8\Omega$ at $I_d = 5.0mA$ and $V_{gs} = 8.0V$

with body diode

The screenshot shows the Peak DCA Pro software interface. The window title is "Peak DCA Pro" and the component name is "green white gray". The interface is divided into several sections:

- Identify:** Shows "MOSFET Id / Vds" and "MOSFET Id / Vgs".
- Test:** A button to initiate testing.
- Results:** Displays the following data:
 - green white gray
 - N-Ch Depletion mode MOSFET
 - Red-S Green-D Blue-G
 - $V_{gs(on)} = -1.927V$ at $I_d = 5.00mA$ and $I_g = 1\mu A$
 - $V_{gs(off)} = -2.431V$ at $I_d = 5.1\mu A$
 - $g_m = 35.5mA/V$ at $I_d = 3.0mA$ to $5.0mA$
 - $R_{ds(on)} = 13.8\Omega$ at $I_d = 5.0mA$ and $V_{gs} = 8.0V$ with body diode
- Schematic:** A diagram of an N-Ch Depletion mode MOSFET with terminals labeled G (Gate, blue), S (Source, red), and D (Drain, green). The diagram shows the internal structure with a body diode between the source and drain.
- Notes:** A list of technical notes:
 - "Depletion mode" means that the gate voltage needs to be lower than the source voltage (for N-Ch types) to turn the device fully off.
 - The gate "on" threshold is determined when drain current is $5.0mA \pm 0.25mA$.
 - Gate threshold voltage accuracy is typically $\pm 2\% \pm 0.01V$.
 - Transconductance is measured for a typical range of drain current from $3mA$ to $5mA$.
 - Transconductance is generally much larger at higher drain currents, particularly for power MOSFETs.
 - Transconductance accuracy is typically $\pm 5\% \pm 2mA/V$ for values less than $20mA/V$.
 - Transconductance accuracy is typically $\pm 10\% \pm 5mA/V$ for values more than $20mA/V$.
 - Most MOSFETs have a "body diode" between the source and drain terminals.
 - $R_{ds(on)}$ will be measured at the test conditions displayed. Measurement resolution for $R_{ds(on)}$ is typically $< 0.5\Omega$. Values less than 1.0Ω will be displayed as $R_{ds(on)} < 1.0\Omega$.

The bottom status bar shows "DCA Pro connected", "Loaded 4 traces.", and "N-Ch Depletion mode MOSFET". The Windows taskbar at the bottom indicates the time is 12:24 AM on 7/9/2019.