

The graph displays the relationship between Drain-Source Voltage ( $V_{DS}$ ) and Drain Current ( $I_D$ ) for a MOSFET at various Gate-Source Voltages ( $V_{GS}$ ). The x-axis represents  $V_{DS}$  in Volts (V), ranging from 0 to 60. The y-axis represents  $I_D$  in milliamperes (mA), ranging from 0 to 10. The curves are labeled with  $V_{GS}$  values: 0.0 V, -2.0 V, -4.0 V, -6.0 V, -8.0 V, -10.0 V, -12.0 V, -14.0 V, and -16.0 V. The curves for  $V_{GS} = 0.0$  V and  $-2.0$  V are red, while the others are blue. The curves show that the drain current increases with  $V_{DS}$  and is higher for more negative  $V_{GS}$  values.

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