



Power MOSFETS

DATASHEET

LM1A092NAN3A

N-Channel
Enhancement Mode MOSFET

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Quality Management Systems
ISO 9001:2015 Certificate

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N-Channel Typical Characteristics

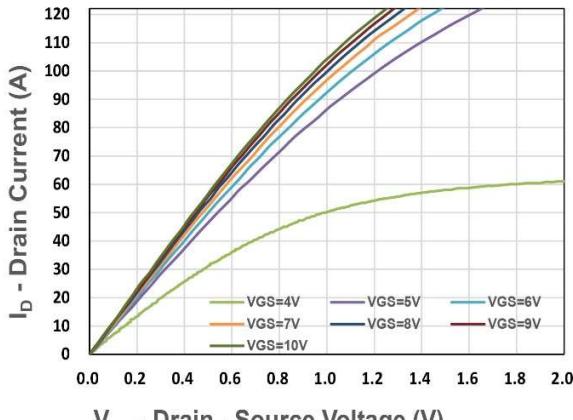


Figure 1. Output Characteristics

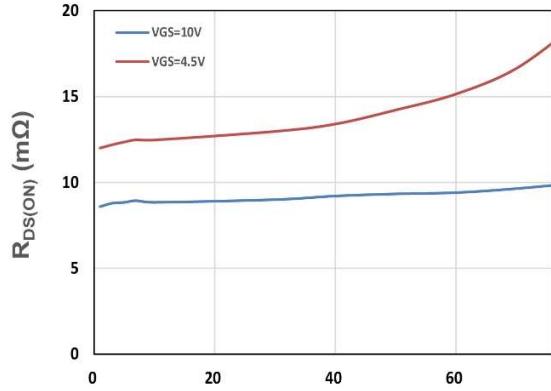


Figure 2. On-Resistance vs. ID

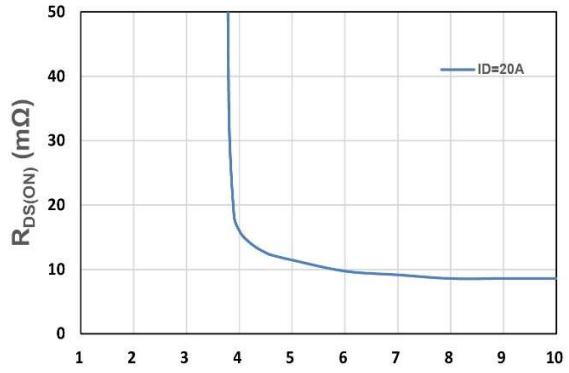


Figure 3. On-Resistance vs. VGS

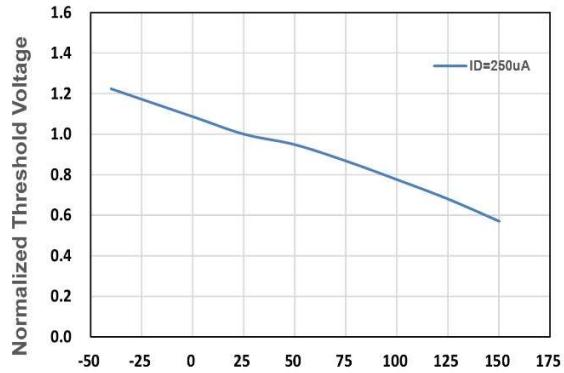


Figure 4. Gate Threshold Voltage

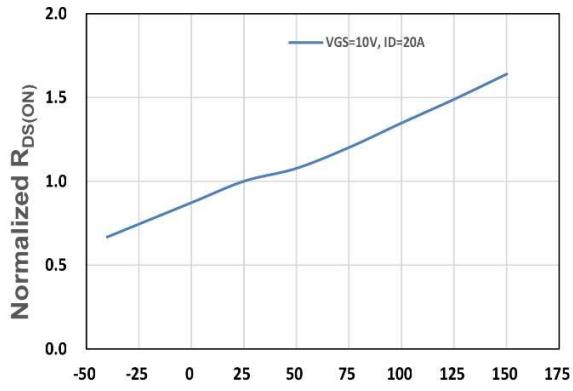


Figure 5. Drain-Source On Resistance

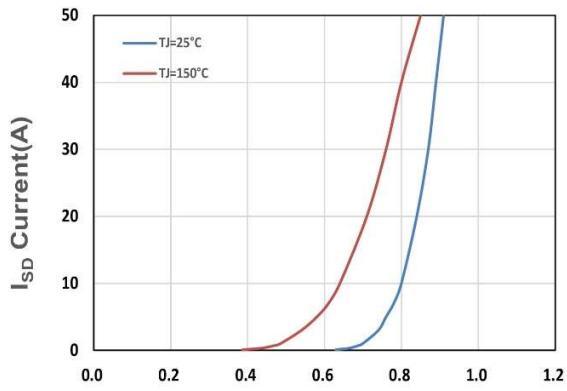
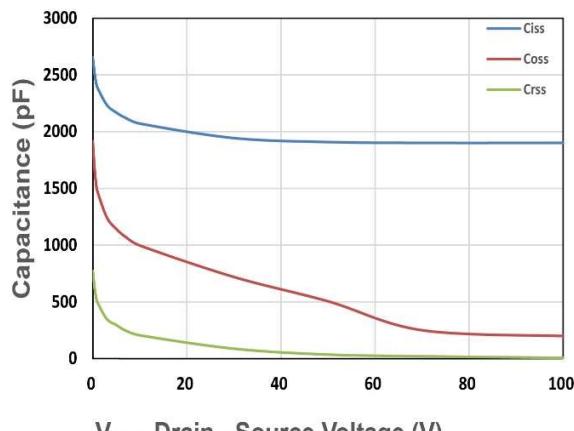


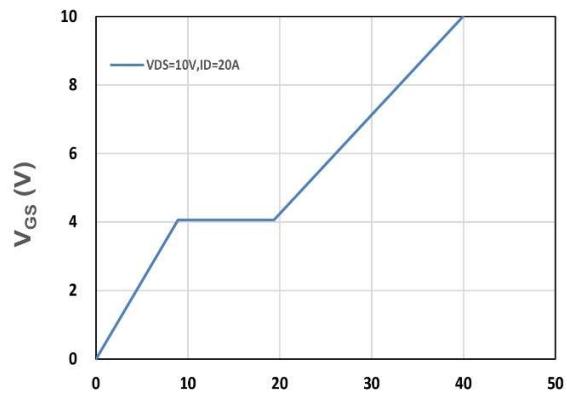
Figure 6. Source-Drain Diode Forward

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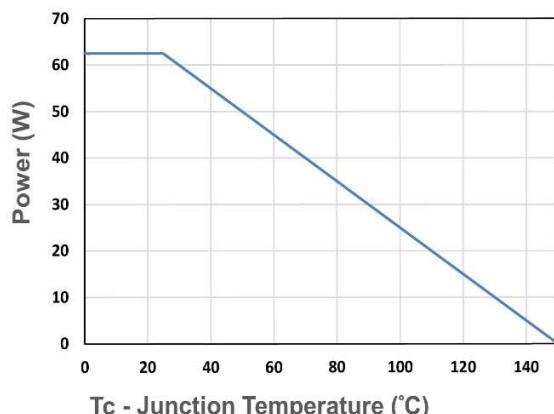
V_{DS} - Drain - Source Voltage (V)

Figure 7. Capacitance



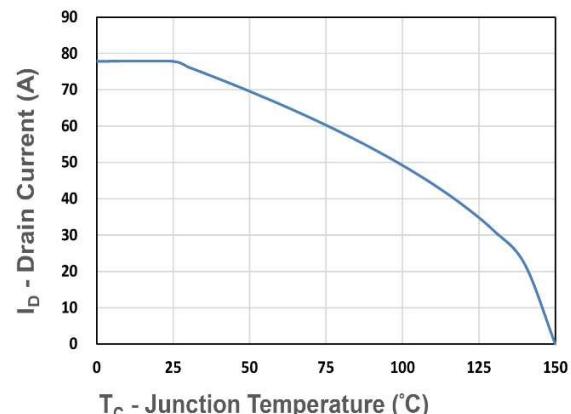
Q_g , Total Gate Charge (nC)

Figure 8. Gate Charge Characteristics



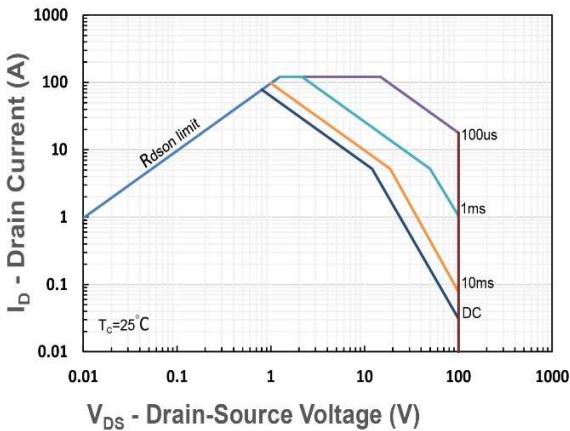
T_c - Junction Temperature (°C)

Figure 9. Power Dissipation



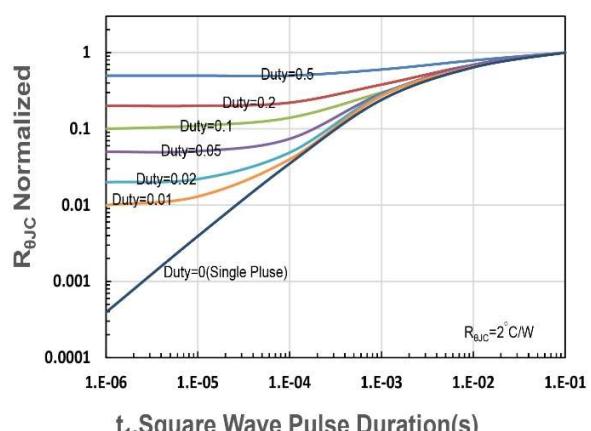
T_c - Junction Temperature (°C)

Figure 10. Drain Current



V_{DS} - Drain-Source Voltage (V)

Figure 11. Safe Operating Area



t_1 , Square Wave Pulse Duration(s)

Figure 12. $R_{θJC}$ Transient Thermal Impedance