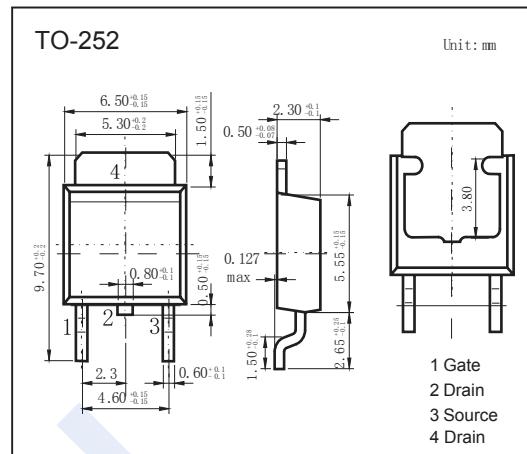
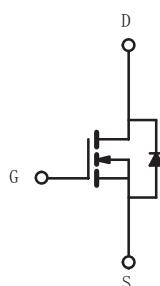


N-Channel MOSFET**NDT8N20****■ Features**

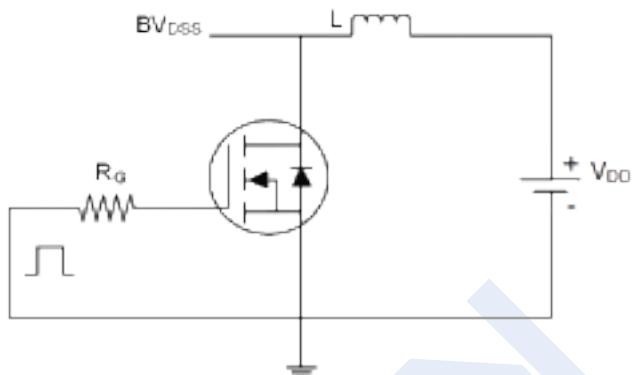
- $V_{DS} = 200V, I_D = 8A$
- $R_{DS(ON)} < 300m\Omega @ V_{GS} = 10V$ (Typ: $260m\Omega$)
- High density cell design for ultra low $R_{DS(on)}$
- Fully characterized avalanche voltage and current
- Low gate to drain charge to reduce switching losses

**■ Absolute Maximum Ratings ($T_c = 25^\circ C$, unless otherwise specified)**

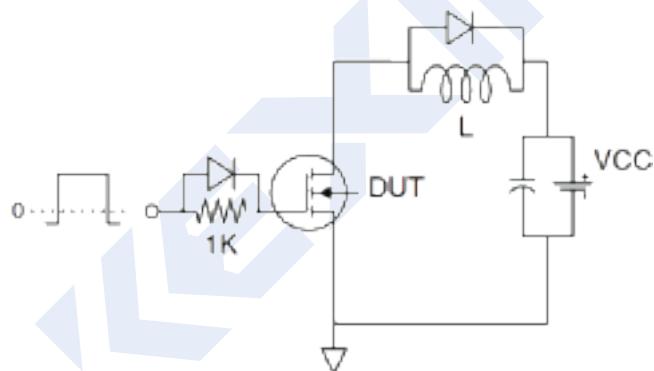
| Parameter | Symbol | Rating | Unit |
|--|------------|------------|--------------|
| Drain-Source Voltage | V_{DS} | 200 | V |
| Gate-Source Voltage | V_{GS} | ± 20 | |
| Continuous Drain Current | I_D | 8 | A |
| | | 5.6 | |
| Pulsed Drain Current | I_{DM} | 20 | |
| Power Dissipation | P_D | 55 | W |
| Thermal Resistance.Junction- to- Case (Note 2) | R_{thJC} | 2.3 | $^\circ C/W$ |
| Junction Temperature | T_J | 150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -55 to 150 | |

N-Channel MOSFET**NDT8N20**

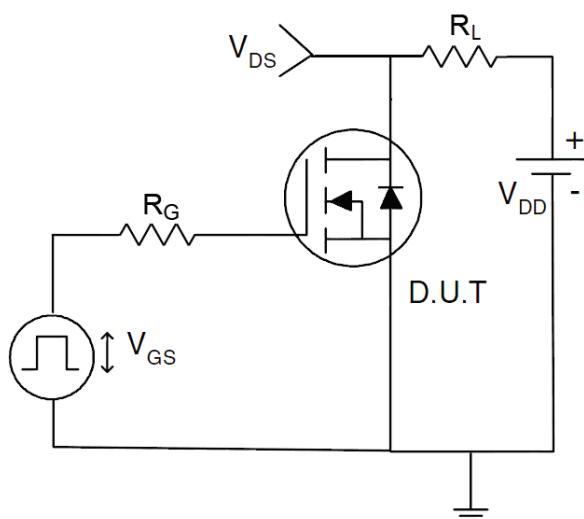
■ Test Circuit

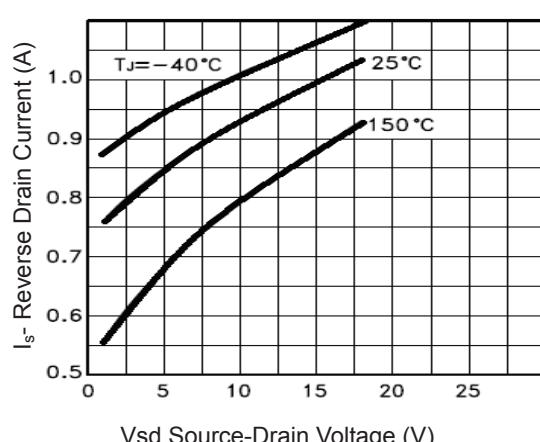
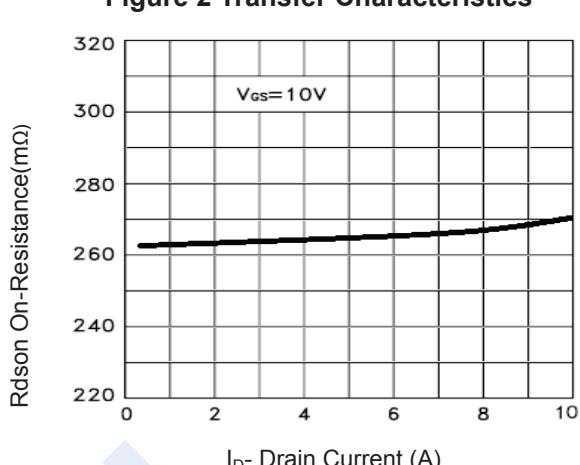
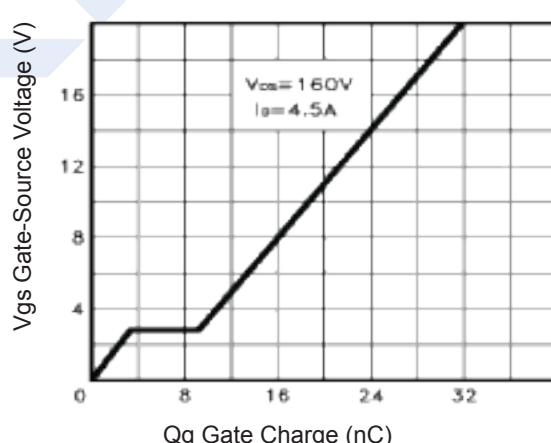
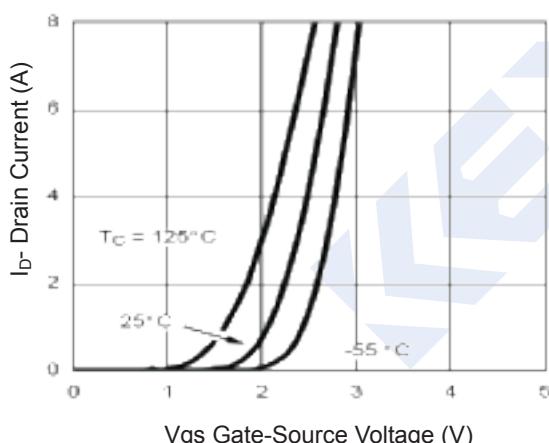
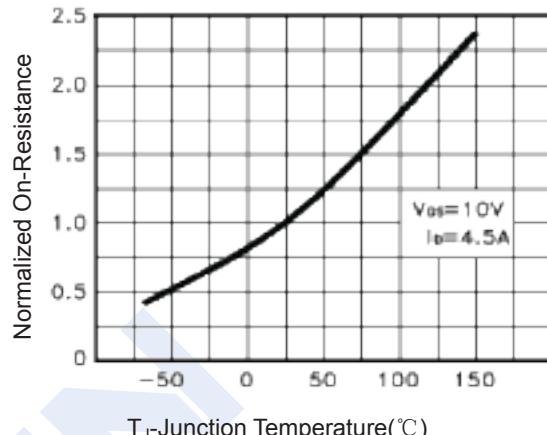
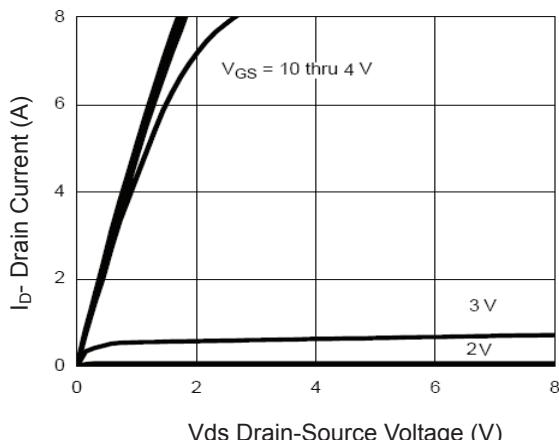
1) E_{AS} test Circuit

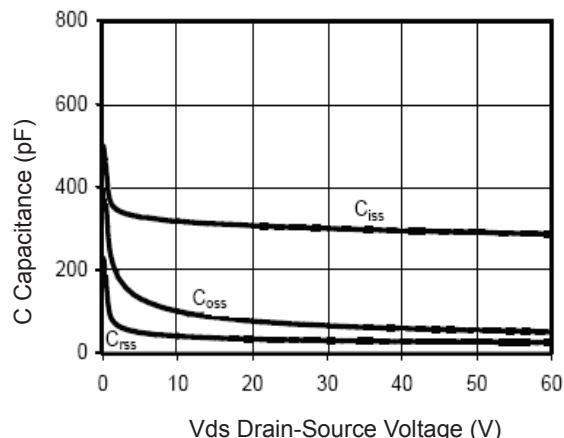
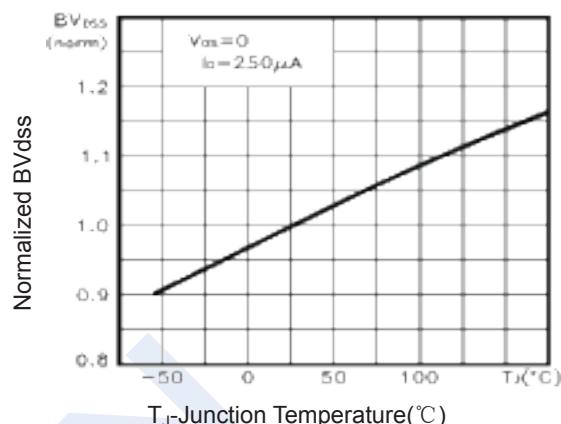
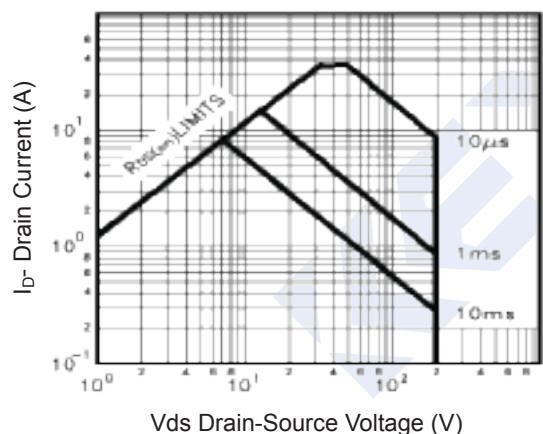
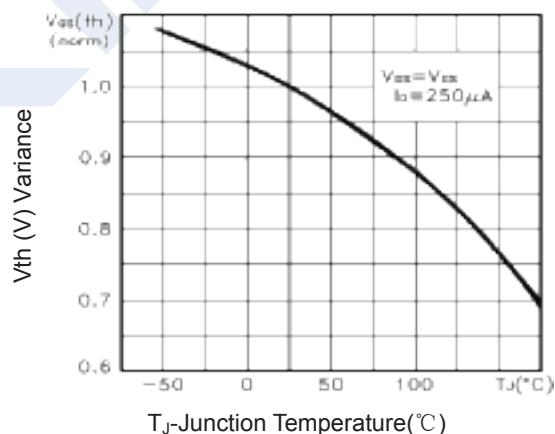
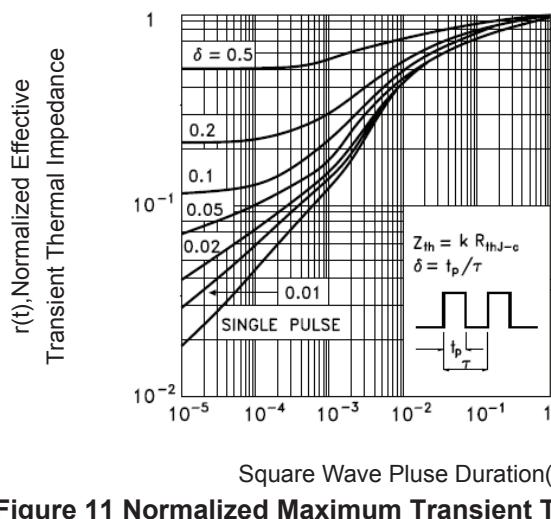
2) Gate charge test Circuit



3) Switch Time Test Circuit



N-Channel MOSFET**NDT8N20****■ Typical Characteristics**

N-Channel MOSFET**NDT8N20****Figure 7 Capacitance vs Vds****Figure 9 BV_{DSS} vs Junction Temperature****Figure 8 Safe Operation Area****Figure 10 V_{GS(th)} vs Junction Temperature****Figure 11 Normalized Maximum Transient Thermal Impedance**