

# NTLGD3502N

## Power MOSFET

20 V, 5.8 A/4.6 A Dual N-Channel,  
DFN6 3x3 mm Package

### Features

- Exposed Drain Package
- Excellent Thermal Resistance for Superior Heat Dissipation
- Low Threshold Levels
- Low Profile (< 1 mm) Allows It to Fit Easily into Extremely Thin Environments
- This is a Pb-Free Device

### Applications

- DC-DC Converters (Buck and Boost Circuits)
- Power Supplies
- Hard Disk Drives

#### MOSFET I MAXIMUM RATINGS ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

| Parameter                                                         |                        |                            | Symbol         | Value      | Unit               |
|-------------------------------------------------------------------|------------------------|----------------------------|----------------|------------|--------------------|
| Drain-to-Source Voltage                                           |                        |                            | $V_{DSS}$      | 20         | V                  |
| Gate-to-Source Voltage                                            |                        |                            | $V_{GS}$       | ±20        | V                  |
| Continuous Drain Current (Note 1)                                 | Steady State           | $T_A = 25^{\circ}\text{C}$ | $I_D$          | 4.3        | A                  |
|                                                                   |                        | $T_A = 85^{\circ}\text{C}$ |                | 3.0        |                    |
|                                                                   | $t \leq 5.0 \text{ s}$ | $T_A = 25^{\circ}\text{C}$ |                | 5.8        |                    |
| Power Dissipation (Note 1)                                        | Steady State           | $T_A = 25^{\circ}\text{C}$ | $P_D$          | 1.74       | W                  |
| Pulsed Drain Current                                              |                        | $t \leq 10 \mu\text{s}$    | $I_{DM}$       | 17.2       | A                  |
| Operating Junction and Storage Temperature                        |                        |                            | $T_J, T_{STG}$ | -55 to 150 | $^{\circ}\text{C}$ |
| Source Current (Body Diode)                                       |                        |                            | $I_S$          | 1.6        | A                  |
| Lead Temperature for Soldering Purposes (1/8" from case for 10 s) |                        |                            | $T_L$          | 260        | $^{\circ}\text{C}$ |

#### MOSFET II MAXIMUM RATINGS ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

| Parameter                                                         |              |                       | Symbol                            | Value      | Unit |
|-------------------------------------------------------------------|--------------|-----------------------|-----------------------------------|------------|------|
| Drain-to-Source Voltage                                           |              |                       | V <sub>DSS</sub>                  | 20         | V    |
| Gate-to-Source Voltage                                            |              |                       | V <sub>GS</sub>                   | ±12        | V    |
| Continuous Drain Current (Note 1)                                 | Steady State | T <sub>A</sub> = 25°C | I <sub>D</sub>                    | 3.6        | A    |
|                                                                   |              | T <sub>A</sub> = 85°C |                                   | 2.5        |      |
|                                                                   | t ≤ 5.0 s    | T <sub>A</sub> = 25°C |                                   | 4.6        |      |
| Power Dissipation (Note 1)                                        | Steady State | T <sub>A</sub> = 25°C | P <sub>D</sub>                    | 1.74       | W    |
| Pulsed Drain Current                                              |              | t ≤10 μs              | I <sub>DM</sub>                   | 13.8       | A    |
| Operating Junction and Storage Temperature                        |              |                       | T <sub>J</sub> , T <sub>STG</sub> | -55 to 150 | °C   |
| Source Current (Body Diode)                                       |              |                       | I <sub>S</sub>                    | 1.7        | A    |
| Lead Temperature for Soldering Purposes (1/8" from case for 10 s) |              |                       | T <sub>L</sub>                    | 260        | °C   |

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. Surface Mounted on FR4 Board using 1 in sq pad size (Cu area = 1.127 in sq [1 oz] including traces)
2. Surface Mounted on FR4 Board using the minimum recommended pad size of 30 mm<sup>2</sup>, 1 oz. Cu



ON Semiconductor®

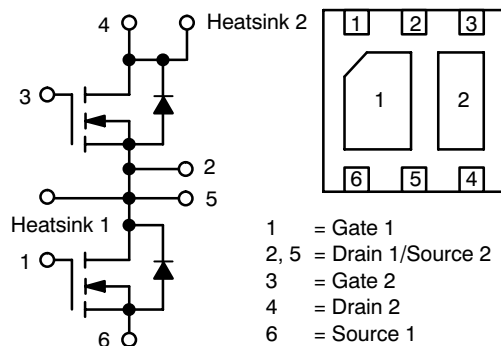
<http://onsemi.com>

### MOSFET I

| $V_{(BR)DS}$ | $R_{DS(on)}$ MAX      | $I_D$ MAX |
|--------------|-----------------------|-----------|
| 20 V         | 60 m $\Omega$ @ 4.5 V | 5.8 A     |

### MOSFET II

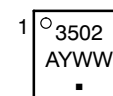
| $V_{(BR)DS}$ | $R_{DS(on)}$ MAX      | $I_D$ MAX |
|--------------|-----------------------|-----------|
| 20 V         | 90 m $\Omega$ @ 4.5 V | 4.6 A     |



### MARKING DIAGRAMS



DFN6  
CASE 506AG



3502 = Specific Device Code  
A = Assembly Location  
Y = Year  
WW = Work Week  
■ = Pb-Free Package

### ORDERING INFORMATION

| Device        | Package        | Shipping†        |
|---------------|----------------|------------------|
| NTLGD3502NT1G | DFN6 (Pb-free) | 3000/Tape & Reel |
| NTLGD3502NT2G | DFN6 (Pb-free) | 3000/Tape & Reel |

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

# THERMAL RESISTANCE RATINGS

| Parameter                                                      | Symbol          | Max | Unit                 |
|----------------------------------------------------------------|-----------------|-----|----------------------|
| Junction-to-Ambient – Steady State (Note 1)                    | $R_{\theta JA}$ | 72  | $^{\circ}\text{C/W}$ |
| Junction-to-Ambient – $t \leq 5$ s (Note 1)                    | $R_{\theta JA}$ | 40  |                      |
| Junction-to-Ambient – Steady State min Pad (Note 2)            | $R_{\theta JA}$ | 110 |                      |
| Junction-to-Ambient – Pulsed (25% duty cycle) min Pad (Note 2) | $R_{\theta JA}$ | 60  |                      |

# MOSFET I ELECTRICAL CHARACTERISTICS ( $T_J = 25^{\circ}\text{C}$ unless otherwise noted)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------|--------|-----------------|-----|-----|-----|------|
|-----------|--------|-----------------|-----|-----|-----|------|

## Off Characteristics

|                                                           |                   |                                                              |                             |    |           |                              |
|-----------------------------------------------------------|-------------------|--------------------------------------------------------------|-----------------------------|----|-----------|------------------------------|
| Drain-to-Source Breakdown Voltage                         | $V_{(BR)DSS}$     | $V_{GS} = 0\text{ V}, I_D = 250\text{ }\mu\text{A}$          | 20                          |    |           | V                            |
| Drain-to-Source Breakdown Voltage Temperature Coefficient | $V_{(BR)DSS}/T_J$ | $I_D = 250\text{ }\mu\text{A}$ , ref to $25^{\circ}\text{C}$ |                             | 10 |           | $\text{mV}/^{\circ}\text{C}$ |
| Zero Gate Voltage Drain Current                           | $I_{DSS}$         | $V_{GS} = 0\text{ V}, V_{DS} = 16\text{ V}$                  | $T_J = 25^{\circ}\text{C}$  |    | 1.0       | $\mu\text{A}$                |
|                                                           |                   |                                                              | $T_J = 125^{\circ}\text{C}$ |    | 10        |                              |
| Gate-to-Source Leakage Current                            | $I_{GSS}$         | $V_{DS} = 0\text{ V}, V_{GS} = \pm 20\text{ V}$              |                             |    | $\pm 100$ | nA                           |

## On Characteristics (Note 3)

|                                            |                  |                                                 |     |      |     |                              |
|--------------------------------------------|------------------|-------------------------------------------------|-----|------|-----|------------------------------|
| Gate Threshold Voltage                     | $V_{GS(TH)}$     | $V_{GS} = V_{DS}, I_D = 250\text{ }\mu\text{A}$ | 1.0 | 1.7  | 2.0 | V                            |
| Negative Threshold Temperature Coefficient | $V_{GS(TH)}/T_J$ |                                                 |     | -4.4 |     | $\text{mV}/^{\circ}\text{C}$ |
| Drain-to-Source On Resistance              | $R_{DS(on)}$     | $V_{GS} = 4.5\text{ V}, I_D = 4.3\text{ A}$     |     | 50   | 60  | $\text{m}\Omega$             |
| Forward Transconductance                   | $g_{FS}$         | $V_{DS} = 10\text{ V}, I_D = 4.0\text{ A}$      |     | 5.9  |     | S                            |

## Charges, Capacitances & Gate Resistance

|                              |              |                                                                               |  |     |     |          |
|------------------------------|--------------|-------------------------------------------------------------------------------|--|-----|-----|----------|
| Input Capacitance            | $C_{ISS}$    | $V_{GS} = 0\text{ V}, f = 1\text{ MHz}, V_{DS} = 10\text{ V}$                 |  | 250 | 480 | pF       |
| Output Capacitance           | $C_{OSS}$    |                                                                               |  | 138 | 200 |          |
| Reverse Transfer Capacitance | $C_{RSS}$    |                                                                               |  | 52  | 90  |          |
| Total Gate Charge            | $Q_{G(TOT)}$ | $V_{GS} = 4.5\text{ V}, V_{DS} = 10\text{ V}; I_D = 4.3\text{ A}$<br>(Note 3) |  | 2.9 | 4.0 | nC       |
| Gate-to-Source Charge        | $Q_{GS}$     |                                                                               |  | 1.0 |     |          |
| Gate-to-Drain Charge         | $Q_{GD}$     |                                                                               |  | 1.1 |     |          |
| Gate Resistance              | $R_G$        |                                                                               |  | 1.5 |     | $\Omega$ |

## Switching Characteristics, $V_{GS} = 4.5\text{ V}$ (Note 4)

|                     |              |                                                                                                |  |      |     |    |
|---------------------|--------------|------------------------------------------------------------------------------------------------|--|------|-----|----|
| Turn-On Delay Time  | $t_{d(ON)}$  | $V_{GS} = 4.5\text{ V}, V_{DD} = 10\text{ V},$<br>$I_D = 4.3\text{ A}, R_G = 10\text{ }\Omega$ |  | 7.0  | 12  | ns |
| Rise Time           | $t_r$        |                                                                                                |  | 17.5 | 25  |    |
| Turn-Off Delay Time | $t_{d(OFF)}$ |                                                                                                |  | 8.6  | 15  |    |
| Fall Time           | $t_f$        |                                                                                                |  | 3.3  | 5.0 |    |

## Drain-Source Diode Characteristics

|                         |          |                                                                                    |                             |      |      |     |    |
|-------------------------|----------|------------------------------------------------------------------------------------|-----------------------------|------|------|-----|----|
| Forward Diode Voltage   | $V_{SD}$ | $V_{GS} = 0\text{ V}, I_S = 1.6\text{ A}$                                          | $T_J = 25^{\circ}\text{C}$  |      | 0.78 | 1.2 | V  |
|                         |          |                                                                                    | $T_J = 125^{\circ}\text{C}$ |      | 0.63 |     |    |
| Reverse Recovery Time   | $t_{RR}$ | $V_{GS} = 0\text{ V}, dI_S/dt = 100\text{ A}/\mu\text{s},$<br>$I_S = 1.0\text{ A}$ |                             | 16.7 |      |     | ns |
| Charge Time             | $t_a$    |                                                                                    |                             | 8.2  |      |     |    |
| Discharge Time          | $t_b$    |                                                                                    |                             | 8.5  |      |     |    |
| Reverse Recovery Charge | $Q_{RR}$ |                                                                                    |                             | 7.0  |      |     | nC |

3. Pulse Test: pulse width  $\leq 300\text{ }\mu\text{s}$ , duty cycle  $\leq 2\%$

4. Switching characteristics are independent of operating junction temperatures

# NTLGD3502N

## MOSFET II ELECTRICAL CHARACTERISTICS ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

| Parameter                                                 | Symbol            | Test Conditions                                            | Min                       | Typ | Max       | Unit                 |
|-----------------------------------------------------------|-------------------|------------------------------------------------------------|---------------------------|-----|-----------|----------------------|
| <b>Off Characteristics</b>                                |                   |                                                            |                           |     |           |                      |
| Drain-to-Source Breakdown Voltage                         | $V_{(BR)DSS}$     | $V_{GS} = 0\text{ V}, I_D = 250\text{ }\mu\text{A}$        | 20                        |     |           | V                    |
| Drain-to-Source Breakdown Voltage Temperature Coefficient | $V_{(BR)DSS}/T_J$ | $I_D = 250\text{ }\mu\text{A}$ , ref to $25^\circ\text{C}$ |                           | 22  |           | mV/ $^\circ\text{C}$ |
| Zero Gate Voltage Drain Current                           | $I_{DSS}$         | $V_{GS} = 0\text{ V}, V_{DS} = 16\text{ V}$                | $T_J = 25^\circ\text{C}$  |     | 1         | $\mu\text{A}$        |
|                                                           |                   |                                                            | $T_J = 125^\circ\text{C}$ |     | 10        |                      |
| Gate-to-Source Leakage Current                            | $I_{GSS}$         | $V_{DS} = 0\text{ V}, V_{GS} = \pm 12\text{ V}$            |                           |     | $\pm 100$ | nA                   |

### On Characteristics (Note 5)

|                                            |                  |                                                 |     |      |     |                      |
|--------------------------------------------|------------------|-------------------------------------------------|-----|------|-----|----------------------|
| Gate Threshold Voltage                     | $V_{GS(TH)}$     | $V_{GS} = V_{DS}, I_D = 250\text{ }\mu\text{A}$ | 0.6 |      | 2.0 | V                    |
| Negative Threshold Temperature Coefficient | $V_{GS(TH)}/T_J$ |                                                 |     | -2.8 |     | mV/ $^\circ\text{C}$ |
| Drain-to-Source On Resistance              | $R_{DS(on)}$     | $V_{GS} = 4.5\text{ V}, I_D = 3.4\text{ A}$     |     | 70   | 90  | $\text{m}\Omega$     |
|                                            |                  | $V_{GS} = 2.5\text{ V}, I_D = 1.7\text{ A}$     |     | 95   | 120 |                      |
| Forward Transconductance                   | $g_{FS}$         | $V_{DS} = 10\text{ V}, I_D = 3.4\text{ A}$      |     | 6.7  |     | S                    |

### Charges, Capacitances & Gate Resistance

|                              |              |                                                                   |  |      |     |    |
|------------------------------|--------------|-------------------------------------------------------------------|--|------|-----|----|
| Input Capacitance            | $C_{ISS}$    | $V_{GS} = 0\text{ V}, f = 1\text{ MHz}, V_{DS} = 10\text{ V}$     |  | 144  | 275 | pF |
| Output Capacitance           | $C_{OSS}$    |                                                                   |  | 67   | 125 |    |
| Reverse Transfer Capacitance | $C_{RSS}$    |                                                                   |  | 22   | 40  |    |
| Total Gate Charge            | $Q_{G(TOT)}$ | $V_{GS} = 4.5\text{ V}, V_{DS} = 10\text{ V}; I_D = 3.4\text{ A}$ |  | 2.1  | 5.0 | nC |
| Threshold Gate Charge        | $Q_{G(TH)}$  |                                                                   |  | 0.11 |     |    |
| Gate-to-Source Charge        | $Q_{GS}$     |                                                                   |  | 0.42 |     |    |
| Gate-to-Drain Charge         | $Q_{GD}$     |                                                                   |  | 0.7  |     |    |

### Switching Characteristics, $V_{GS} = 4.5\text{ V}$ (Note 6)

|                     |              |                                                                                                |  |      |     |    |
|---------------------|--------------|------------------------------------------------------------------------------------------------|--|------|-----|----|
| Turn-On Delay Time  | $t_{d(ON)}$  | $V_{GS} = 4.5\text{ V}, V_{DD} = 16\text{ V},$<br>$I_D = 3.4\text{ A}, R_G = 10\text{ }\Omega$ |  | 4.8  | 10  | ns |
| Rise Time           | $t_r$        |                                                                                                |  | 13.6 | 25  |    |
| Turn-Off Delay Time | $t_{d(OFF)}$ |                                                                                                |  | 9.0  | 20  |    |
| Fall Time           | $t_f$        |                                                                                                |  | 1.9  | 5.0 |    |

### Drain-Source Diode Characteristics

|                         |          |                                                                                       |                           |  |      |      |    |
|-------------------------|----------|---------------------------------------------------------------------------------------|---------------------------|--|------|------|----|
| Forward Diode Voltage   | $V_{SD}$ | $V_{GS} = 0\text{ V}, I_S = 1.7\text{ A}$                                             | $T_J = 25^\circ\text{C}$  |  | 0.8  | 1.15 | V  |
|                         |          |                                                                                       | $T_J = 150^\circ\text{C}$ |  | 0.63 |      |    |
| Reverse Recovery Time   | $t_{RR}$ | $V_{GS} = 0\text{ V}, dI_{SD}/dt = 100\text{ A}/\mu\text{s},$<br>$I_S = 1.0\text{ A}$ |                           |  | 12   |      | ns |
| Charge Time             | $t_a$    |                                                                                       |                           |  | 8.0  |      |    |
| Discharge Time          | $t_b$    |                                                                                       |                           |  | 4.0  |      |    |
| Reverse Recovery Charge | $Q_{RR}$ |                                                                                       |                           |  | 5.0  |      | nC |

5. Pulse Test: pulse width  $\leq 300\text{ }\mu\text{s}$ , duty cycle  $\leq 2\%$

6. Switching characteristics are independent of operating junction temperatures

TYPICAL MOSFET I N-CHANNEL PERFORMANCE CURVES

( $T_J = 25^\circ\text{C}$  unless otherwise noted)

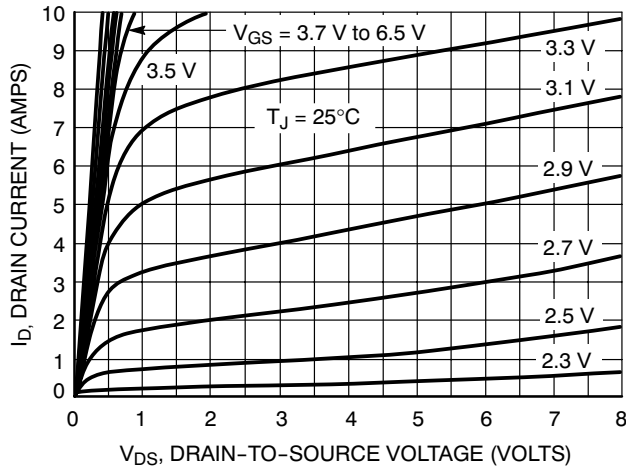


Figure 1. On-Region Characteristics

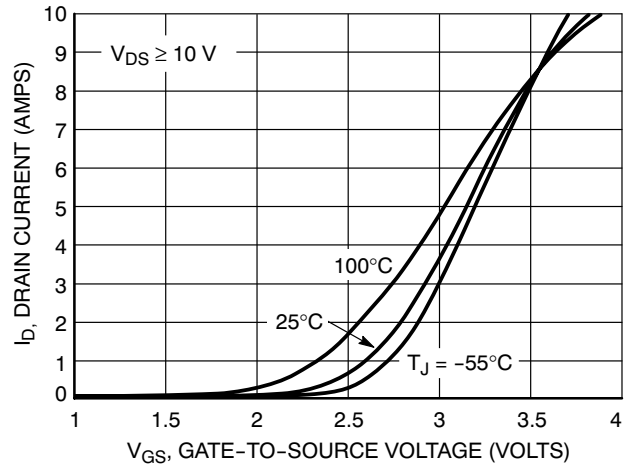


Figure 2. Transfer Characteristics

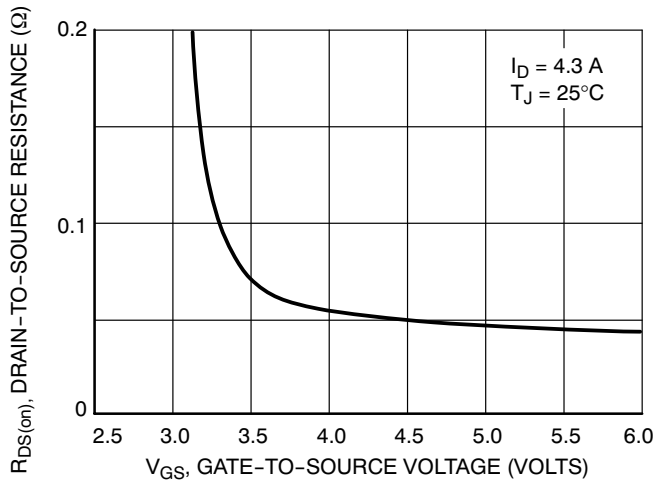


Figure 3. On-Resistance vs. Gate-to-Source Voltage

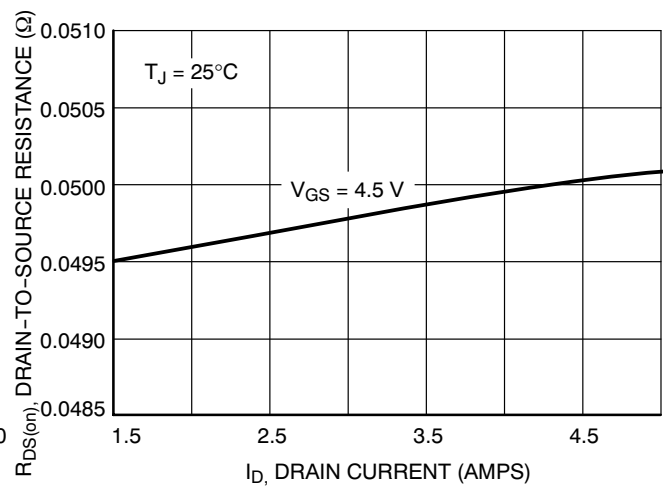


Figure 4. On-Resistance vs. Drain Current and Gate Voltage

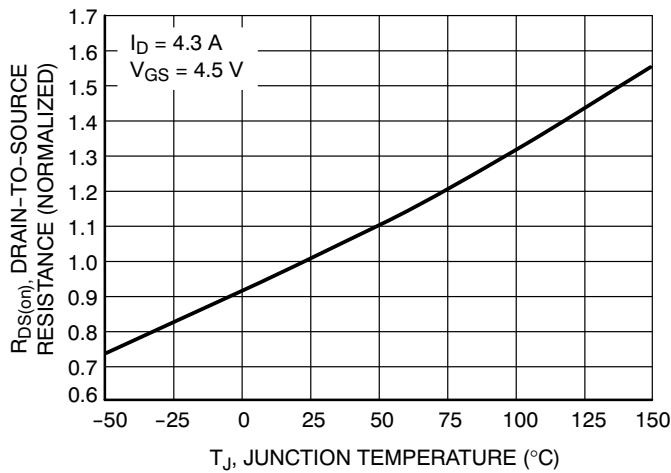


Figure 5. On-Resistance Variation with Temperature

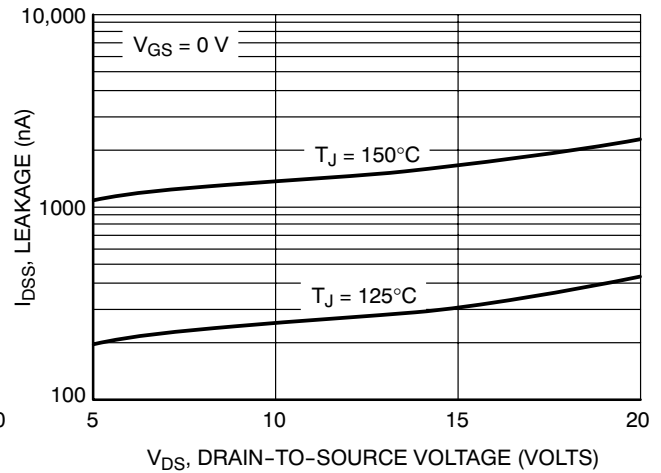


Figure 6. Drain-to-Source Leakage Current vs. Voltage

TYPICAL MOSFET I N-CHANNEL PERFORMANCE CURVES

( $T_J = 25^\circ\text{C}$  unless otherwise noted)

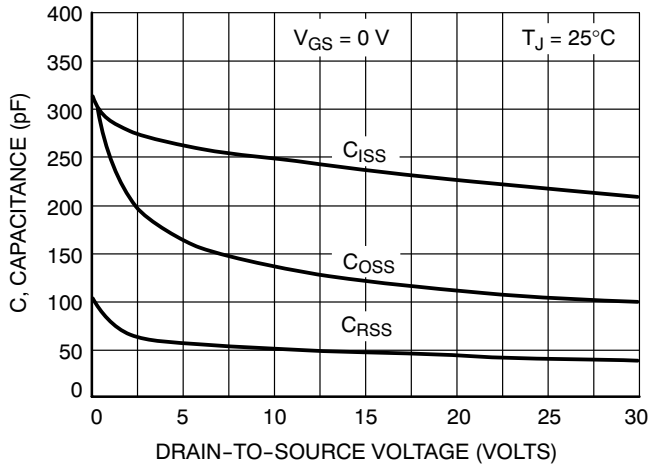


Figure 7. Capacitance Variation

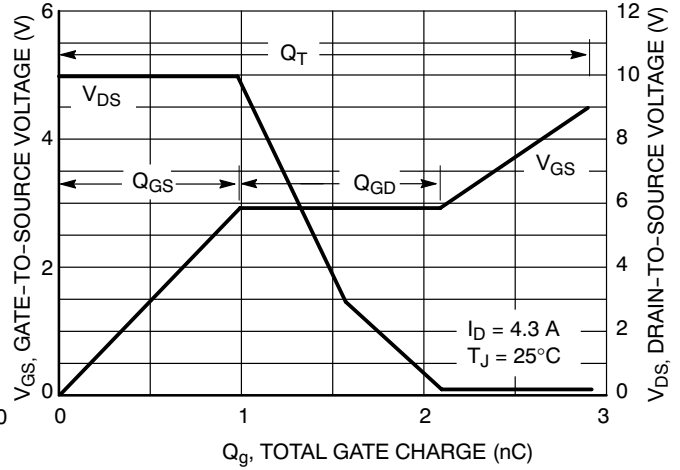


Figure 8. Gate-to-Source and Drain-to-Source Voltage vs. Total Charge

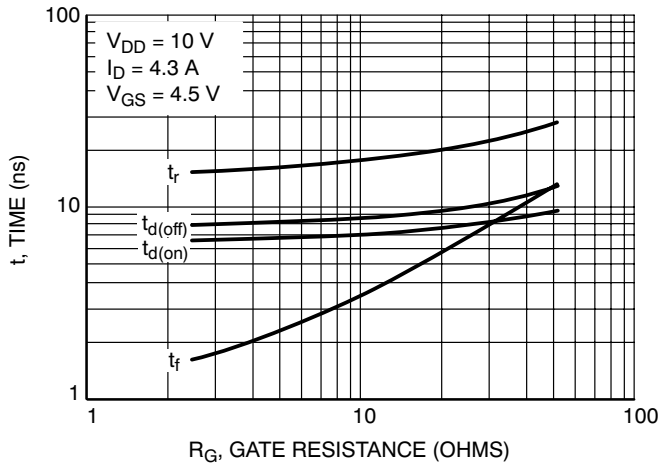


Figure 9. Resistive Switching Time Variation vs. Gate Resistance

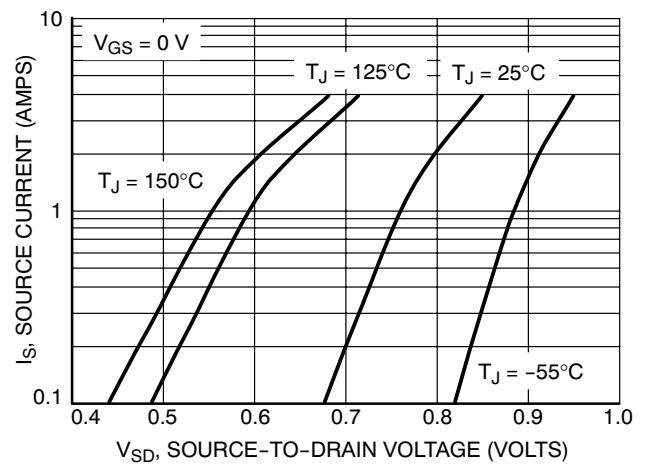


Figure 10. Diode Forward Voltage vs. Current

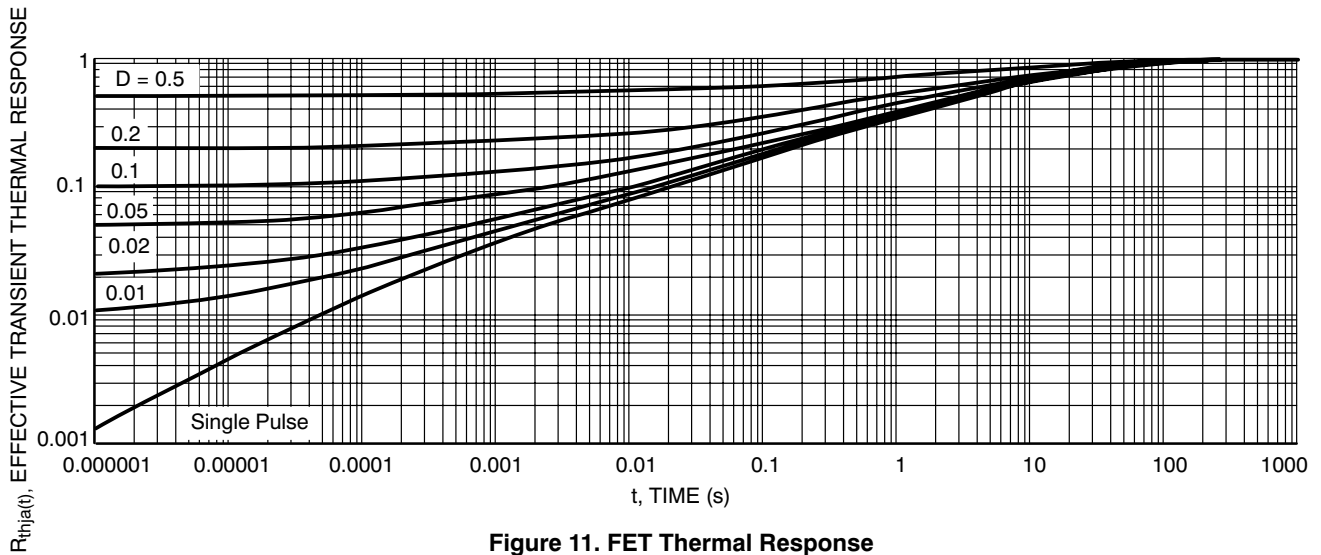


Figure 11. FET Thermal Response

TYPICAL MOSFET II N-CHANNEL PERFORMANCE CURVES

( $T_J = 25^\circ\text{C}$  unless otherwise noted)

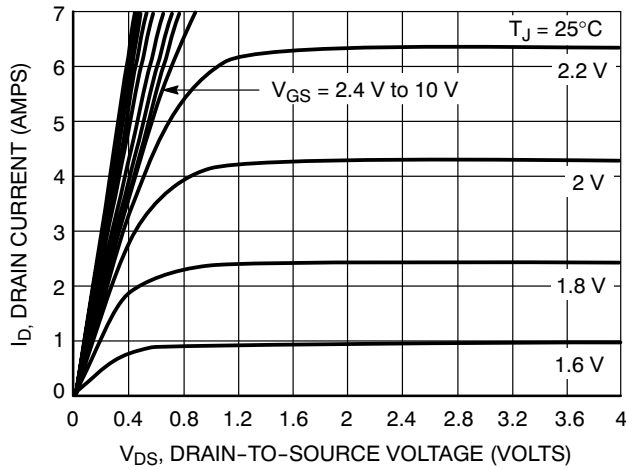


Figure 12. On-Region Characteristics

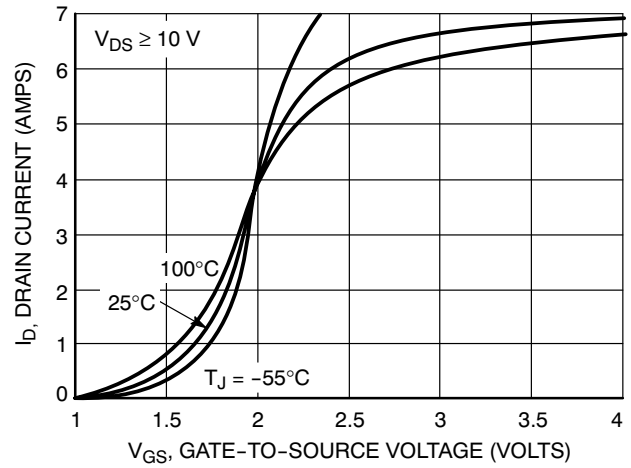


Figure 13. Transfer Characteristics

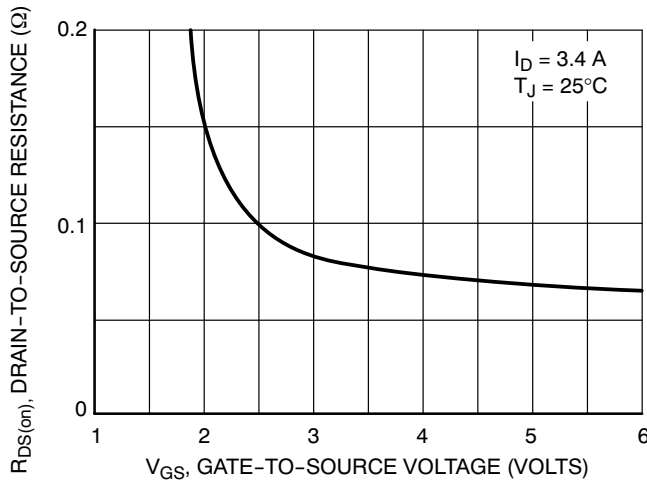


Figure 14. On-Resistance vs. Gate-to-Source Voltage

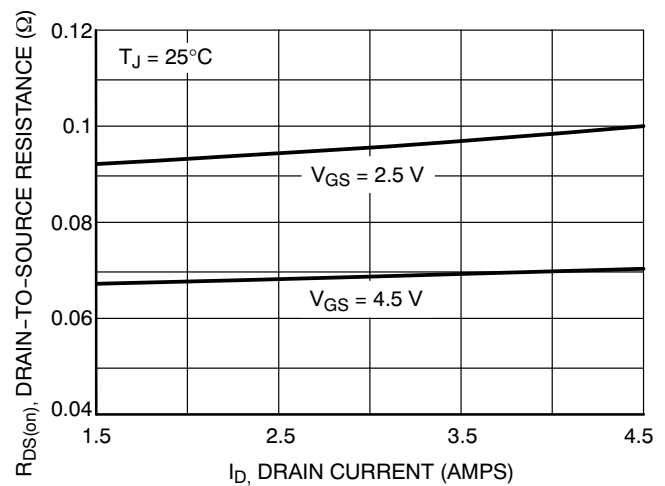


Figure 15. On-Resistance vs. Drain Current and Gate Voltage

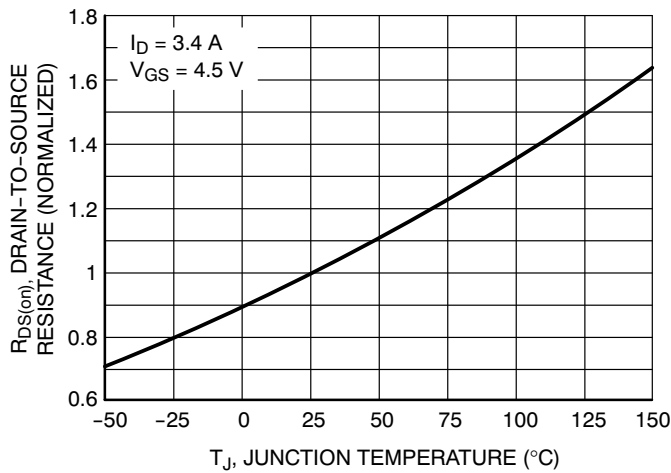


Figure 16. On-Resistance Variation with Temperature

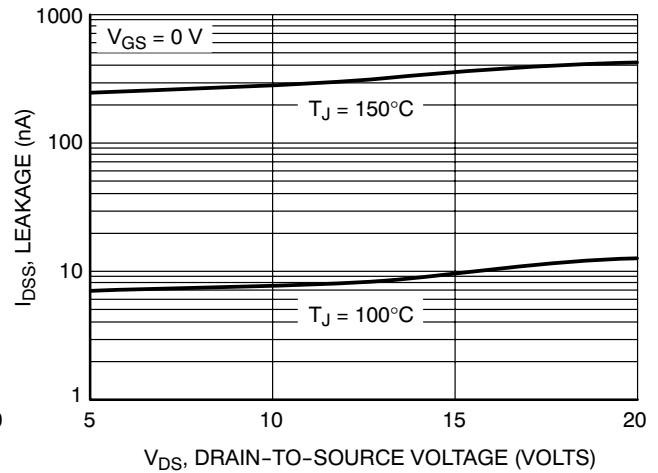


Figure 17. Drain-to-Source Leakage Current vs. Voltage

TYPICAL MOSFET II N-CHANNEL PERFORMANCE CURVES

( $T_J = 25^\circ\text{C}$  unless otherwise noted)

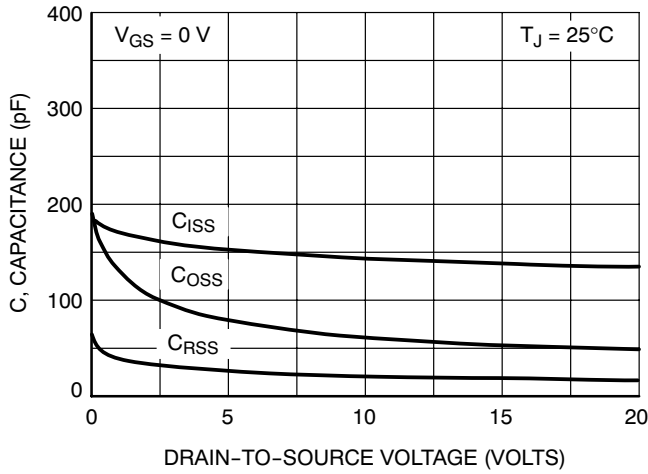


Figure 18. Capacitance Variation

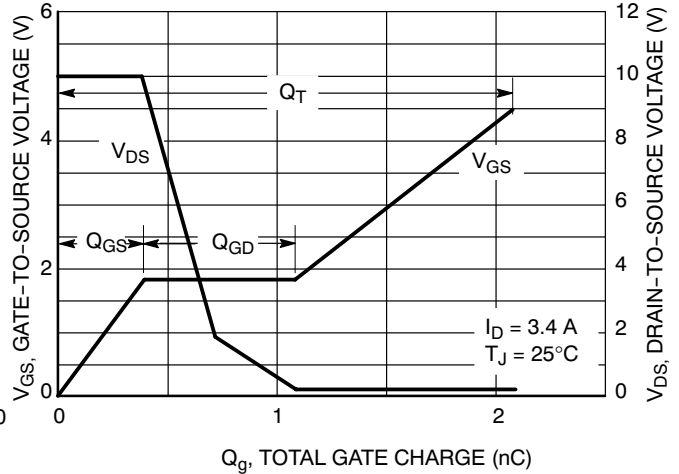


Figure 19. Gate-to-Source and Drain-to-Source Voltage vs. Total Charge

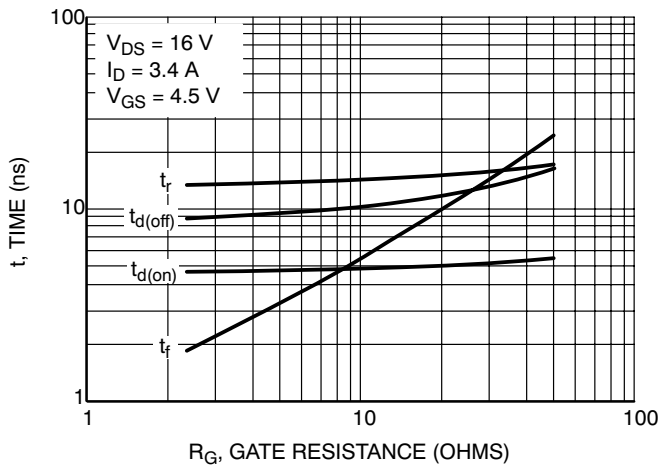


Figure 20. Resistive Switching Time Variation vs. Gate Resistance

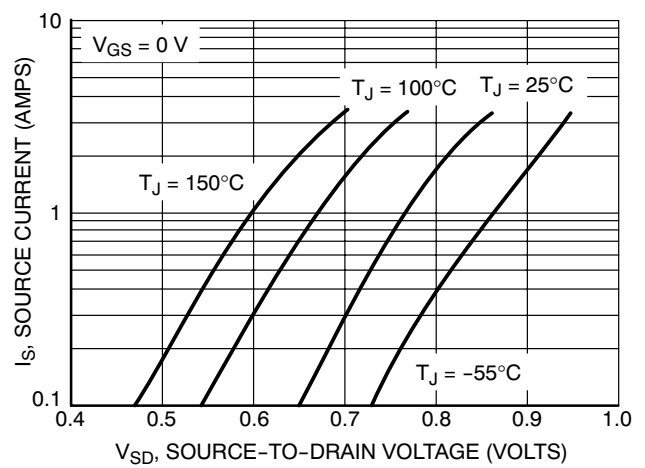


Figure 21. Diode Forward Voltage vs. Current

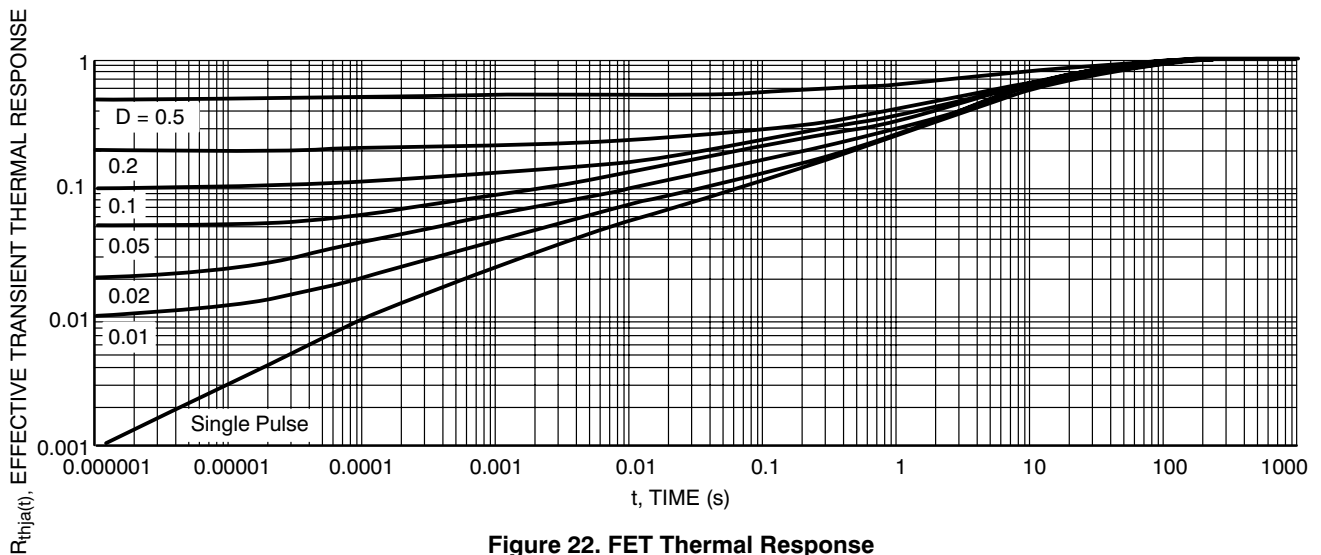
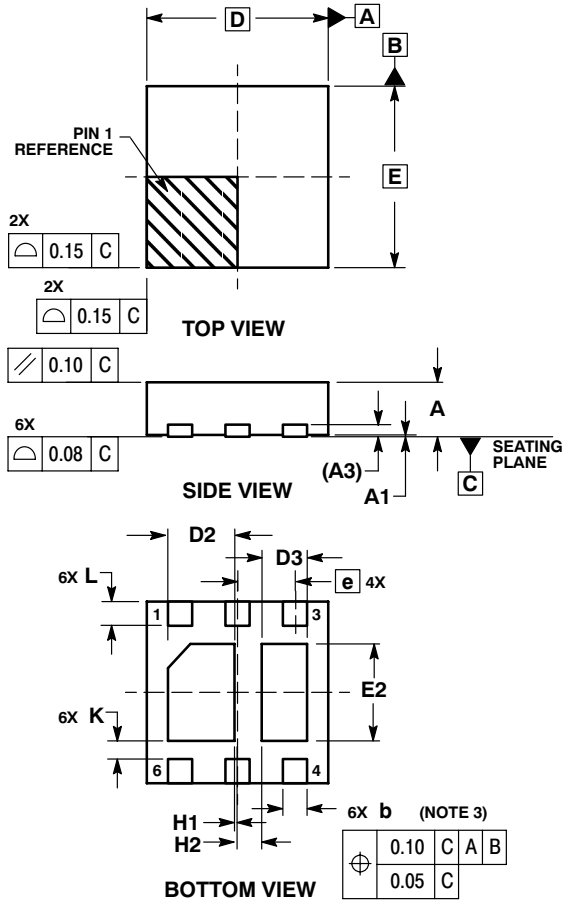


Figure 22. FET Thermal Response

# NTLGD3502N

## PACKAGE DIMENSIONS

DFN6 3\*3 MM, 0.95 PITCH  
CASE 506AG-01  
ISSUE O

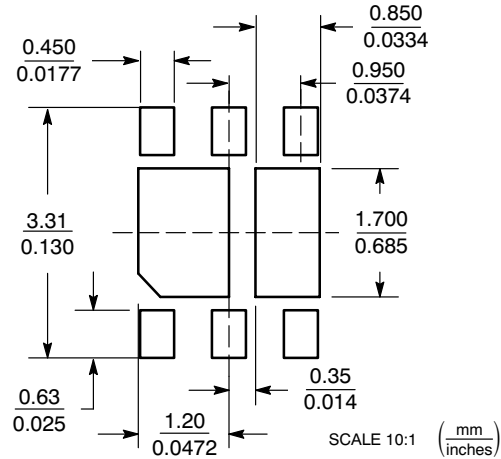


### NOTES:

1. DIMENSIONS AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.25 AND 0.30 MM FROM TERMINAL.
4. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.

| MILLIMETERS |          |      |      |
|-------------|----------|------|------|
| DIM         | MIN      | NOM  | MAX  |
| A           | 0.80     | 0.90 | 1.00 |
| A1          | 0.00     | 0.03 | 0.05 |
| A3          | 0.20 REF |      |      |
| b           | 0.35     | 0.40 | 0.45 |
| D           | 3.00 BSC |      |      |
| D2          | 1.00     | 1.10 | 1.20 |
| D3          | 0.65     | 0.75 | 0.85 |
| E           | 3.00 BSC |      |      |
| E2          | 1.50     | 1.60 | 1.70 |
| e           | 0.95 BSC |      |      |
| K           | 0.21     | ---  | ---  |
| L           | 0.30     | 0.40 | 0.50 |
| H1          | 0.05 REF |      |      |
| H2          | 0.40 REF |      |      |

### SOLDERING FOOTPRINT\*



\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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