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# FDP5N50NZ / FDPF5N50NZ N-Channel UniFET™ II MOSFET 500 V, 4.5 A, 1.5 Ω

## Features

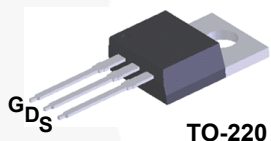
- $R_{DS(on)} = 1.38 \Omega$  (Typ.) @  $V_{GS} = 10 V$ ,  $I_D = 2.25 A$
- Low Gate Charge (Typ. 9 nC)
- Low  $C_{RSS}$  (Typ. 4 pF)
- 100% Avalanche Tested
- Improved dv/dt Capability
- ESD Improved Capability
- RoHS Compliant

## Applications

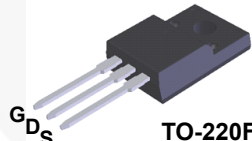
- LCD/ LED TV
- Lighting
- Uninterruptible Power Supply
- AC-DC Power Supply

## Description

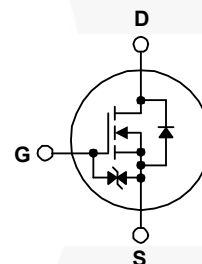
UniFET™ II MOSFET is Fairchild Semiconductor's high voltage MOSFET family based on advanced planar stripe and DMOS technology. This advanced MOSFET family has the smallest on-state resistance among the planar MOSFET, and also provides superior switching performance and higher avalanche energy strength. In addition, internal gate-source ESD diode allows UniFET II MOSFET to withstand over 2kV HBM surge stress. This device family is suitable for switching power converter applications such as power factor correction (PFC), flat panel display (FPD) TV power, ATX and electronic lamp ballasts.



TO-220



TO-220F



## MOSFET Maximum Ratings $T_C = 25^\circ C$ unless otherwise noted.

| Symbol         | Parameter                                                             | FDP5N50NZ   | FDPF5N50NZ | Unit |
|----------------|-----------------------------------------------------------------------|-------------|------------|------|
| $V_{DSS}$      | Drain to Source Voltage                                               | 500         |            | V    |
| $V_{GSS}$      | Gate to Source Voltage                                                | ±25         |            | V    |
| $I_D$          | Drain Current                                                         | 4.5         | 4.5*       | A    |
|                |                                                                       | 2.7         | 2.7*       |      |
| $I_{DM}$       | Drain Current - Pulsed (Note 1)                                       | 18          | 18*        | A    |
| $E_{AS}$       | Single Pulsed Avalanche Energy (Note 2)                               | 160         |            | mJ   |
| $I_{AR}$       | Avalanche Current (Note 1)                                            | 4.5         |            | A    |
| $E_{AR}$       | Repetitive Avalanche Energy (Note 1)                                  | 7.8         |            | mJ   |
| dv/dt          | Peak Diode Recovery dv/dt (Note 3)                                    | 10          |            | V/ns |
| $P_D$          | Power Dissipation ( $T_C = 25^\circ C$ )                              | 78          | 30         | W    |
|                |                                                                       | 0.62        | 0.24       |      |
| $T_J, T_{STG}$ | Operating and Storage Temperature Range                               | -55 to +150 |            | °C   |
| $T_L$          | Maximum Lead Temperature for Soldering, 1/8" from Case for 5 Seconds. | 300         |            | °C   |

\*Drain current limited by maximum junction temperature

## Thermal Characteristics

| Symbol          | Parameter                                     | FDP5N50NZ | FDPF5N50NZ | Unit |
|-----------------|-----------------------------------------------|-----------|------------|------|
| $R_{\theta JC}$ | Thermal Resistance, Junction to Case, Max.    | 1.6       | 4.1        | °C/W |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient, Max. | 62.5      | 62.5       |      |

## Package Marking and Ordering Information

| Part Number | Top Mark   | Package | Packing Method | Reel Size | Tape Width | Quantity |
|-------------|------------|---------|----------------|-----------|------------|----------|
| FDP5N50NZ   | FDP5N50NZ  | TO-220  | Tube           | N/A       | N/A        | 50 units |
| FDPF5N50NZ  | FDPF5N50NZ | TO-220F | Tube           | N/A       | N/A        | 50 units |

## Electrical Characteristics $T_C = 25^\circ\text{C}$ unless otherwise noted.

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

### Off Characteristics

|                                |                                           |                                                                               |     |     |          |               |
|--------------------------------|-------------------------------------------|-------------------------------------------------------------------------------|-----|-----|----------|---------------|
| $BV_{DSS}$                     | Drain to Source Breakdown Voltage         | $I_D = 250\ \mu\text{A}$ , $V_{GS} = 0\ \text{V}$ , $T_C = 25^\circ\text{C}$  | 500 | -   | -        | V             |
| $\Delta BV_{DSS} / \Delta T_J$ | Breakdown Voltage Temperature Coefficient | $I_D = 250\ \mu\text{A}$ , Referenced to $25^\circ\text{C}$                   | -   | 0.5 | -        | $^\circ$      |
| $I_{DSS}$                      | Zero Gate Voltage Drain Current           | $V_{DS} = 500\ \text{V}$ , $V_{GS} = 0\ \text{V}$                             | -   | -   | 1        | $\mu\text{A}$ |
|                                |                                           | $V_{DS} = 400\ \text{V}$ , $V_{GS} = 0\ \text{V}$ , $T_C = 125^\circ\text{C}$ | -   | -   | 10       |               |
| $I_{GSS}$                      | Gate to Body Leakage Current              | $V_{GS} = \pm 25\ \text{V}$ , $V_{DS} = 0\ \text{V}$                          | -   | -   | $\pm 10$ | $\mu\text{A}$ |

### On Characteristics

|              |                                      |                                                  |     |      |     |          |
|--------------|--------------------------------------|--------------------------------------------------|-----|------|-----|----------|
| $V_{GS(th)}$ | Gate Threshold Voltage               | $V_{GS} = V_{DS}$ , $I_D = 250\ \mu\text{A}$     | 3.0 | -    | 5.0 | V        |
| $R_{DS(on)}$ | Static Drain to Source On Resistance | $V_{GS} = 10\ \text{V}$ , $I_D = 2.25\ \text{A}$ | -   | 1.38 | 1.5 | $\Omega$ |
| $g_{FS}$     | Forward Transconductance             | $V_{DS} = 20\ \text{V}$ , $I_D = 2.25\ \text{A}$ | -   | 3.54 | -   | S        |

### Dynamic Characteristics

|              |                               |                                                                                         |   |     |     |    |
|--------------|-------------------------------|-----------------------------------------------------------------------------------------|---|-----|-----|----|
| $C_{iss}$    | Input Capacitance             | $V_{DS} = 25\ \text{V}$ , $V_{GS} = 0\ \text{V}$<br>$f = 1\ \text{MHz}$                 | - | 330 | 440 | pF |
| $C_{oss}$    | Output Capacitance            |                                                                                         | - | 50  | 70  | pF |
| $C_{rss}$    | Reverse Transfer Capacitance  |                                                                                         | - | 4   | 8   | pF |
| $Q_{g(tot)}$ | Total Gate Charge at 10V      | $V_{DS} = 400\ \text{V}$ , $I_D = 4.5\ \text{A}$<br>$V_{GS} = 10\ \text{V}$<br>(Note 4) | - | 9   | 12  | nC |
| $Q_{gs}$     | Gate to Source Gate Charge    |                                                                                         | - | 2   | -   | nC |
| $Q_{gd}$     | Gate to Drain "Miller" Charge |                                                                                         | - | 4   | -   | nC |

### Switching Characteristics

|              |                     |                                                                                                                  |   |    |    |    |
|--------------|---------------------|------------------------------------------------------------------------------------------------------------------|---|----|----|----|
| $t_{d(on)}$  | Turn-On Delay Time  | $V_{DD} = 250\ \text{V}$ , $I_D = 4.5\ \text{A}$<br>$V_{GS} = 10\ \text{V}$ , $R_{GEN} = 25\ \Omega$<br>(Note 4) | - | 12 | 35 | ns |
| $t_r$        | Turn-On Rise Time   |                                                                                                                  | - | 22 | 55 | ns |
| $t_{d(off)}$ | Turn-Off Delay Time |                                                                                                                  | - | 28 | 65 | ns |
| $t_f$        | Turn-Off Fall Time  |                                                                                                                  | - | 21 | 50 | ns |

### Drain-Source Diode Characteristics

|                 |                                                          |                                                |   |     |     |    |
|-----------------|----------------------------------------------------------|------------------------------------------------|---|-----|-----|----|
| I <sub>S</sub>  | Maximum Continuous Drain to Source Diode Forward Current |                                                | - | -   | 4.5 | A  |
| I <sub>SM</sub> | Maximum Pulsed Drain to Source Diode Forward Current     |                                                | - | -   | 18  | A  |
| V <sub>SD</sub> | Drain to Source Diode Forward Voltage                    | V <sub>GS</sub> = 0 V, I <sub>SD</sub> = 4.5 A | - | -   | 1.4 | V  |
| t <sub>rr</sub> | Reverse Recovery Time                                    | V <sub>GS</sub> = 0 V, I <sub>SD</sub> = 4.5 A | - | 210 | -   | ns |
| Q <sub>rr</sub> | Reverse Recovery Charge                                  | dI <sub>F</sub> /dt = 100 A/μs                 | - | 1.1 | -   | μC |

#### Notes:

- 1: Repetitive rating: pulse-width limited by maximum junction temperature.
- 2:  $L = 15.8\ \text{mH}$ ,  $I_{AS} = 4.5\ \text{A}$ ,  $V_{DD} = 50\ \text{V}$ ,  $R_G = 25\ \Omega$ , starting  $T_J = 25^\circ\text{C}$ .
- 3:  $I_{SD} \leq 2.8\ \text{A}$ ,  $di/dt \leq 200\ \text{A}/\mu\text{s}$ ,  $V_{DD} \leq BV_{DSS}$ , starting  $T_J = 25^\circ\text{C}$ .
- 4: Essentially independent of operating temperature typical characteristics.

## Typical Performance Characteristics

Figure 1. On-Region Characteristics

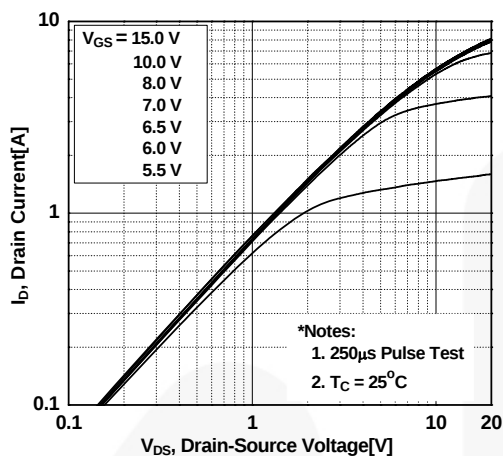


Figure 2. Transfer Characteristics

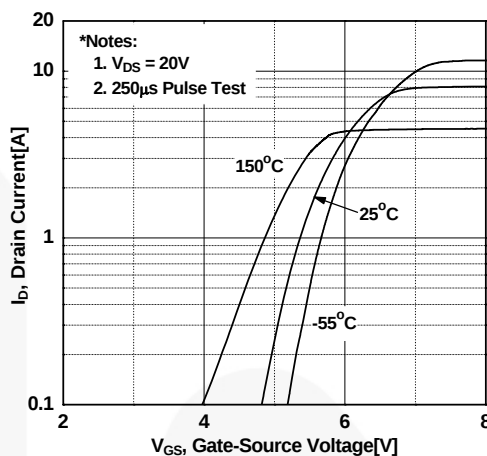


Figure 3. On-Resistance Variation vs. Drain Current and Gate Voltage

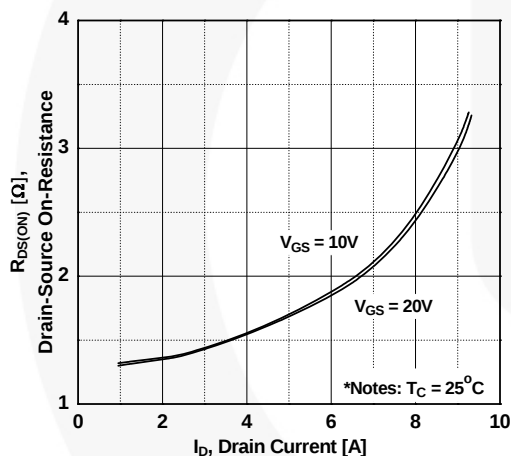


Figure 4. Body Diode Forward Voltage Variation vs. Source Current and Temperature

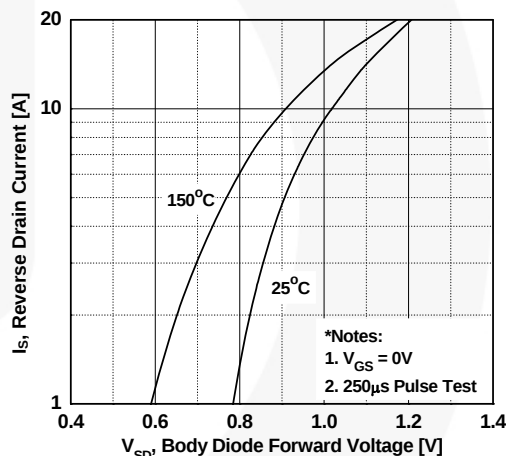


Figure 5. Capacitance Characteristics

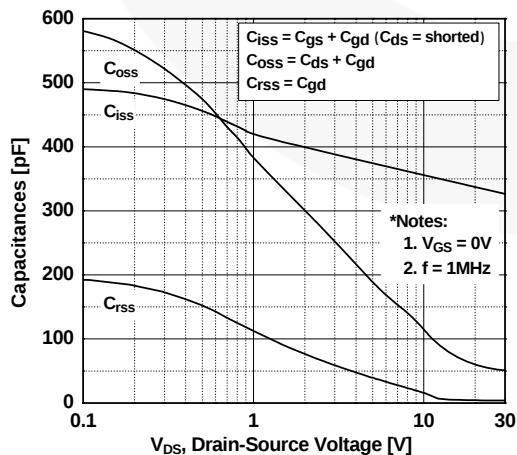
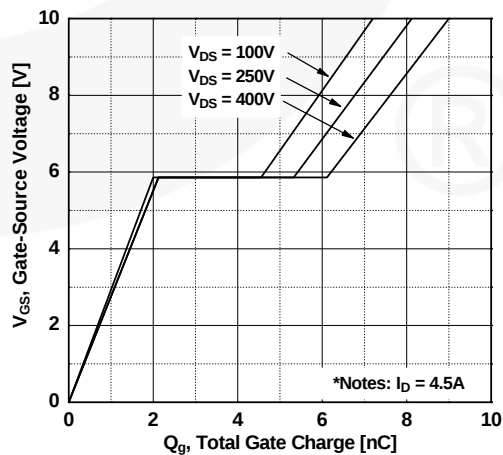


Figure 6. Gate Charge Characteristics



# Typical Performance Characteristics (Continued)

Figure 7. Breakdown Voltage Variation vs. Temperature

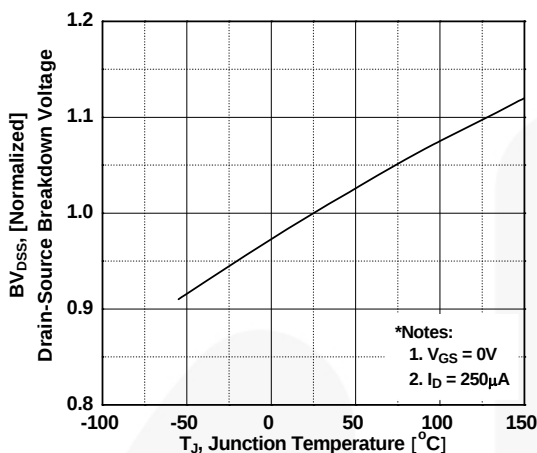


Figure 8. On-Resistance Variation vs. Temperature

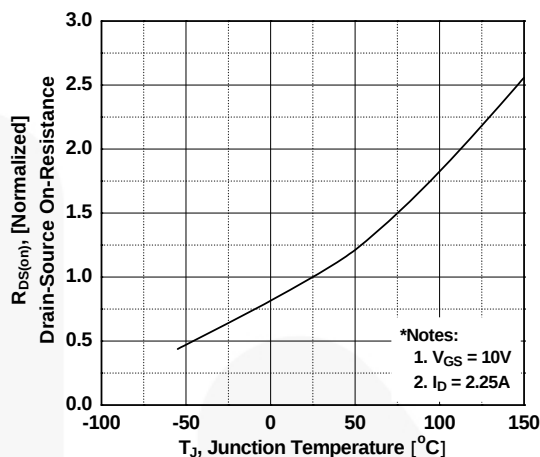


Figure 9. Maximum Safe Operating Area for FDP5N50NZ

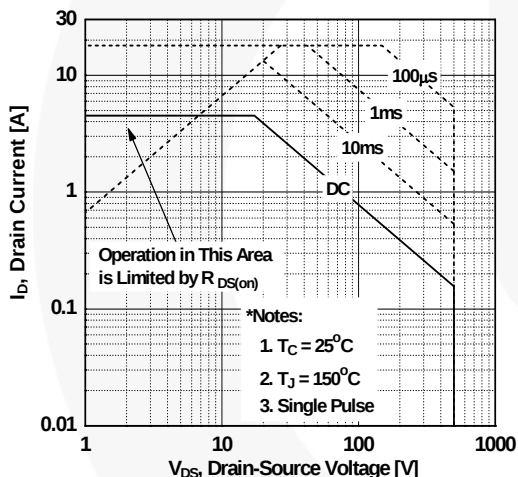


Figure 10. Maximum Safe Operating Area for FDPF5N50NZ

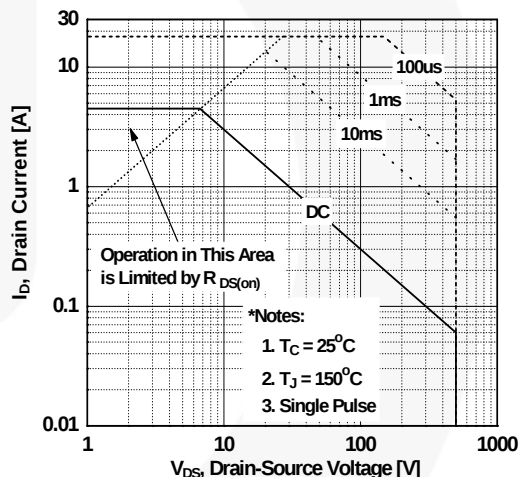
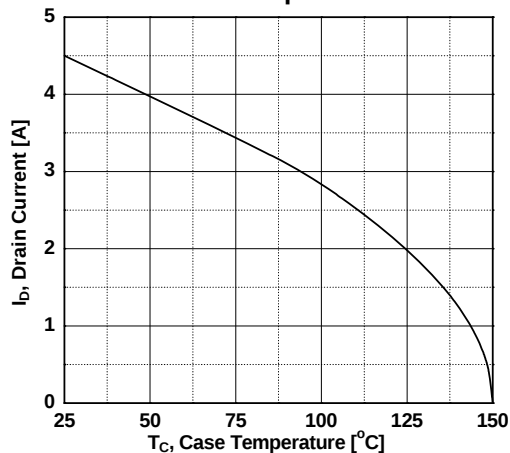


Figure 11. Maximum Drain Current vs. Case Temperature



## Typical Performance Characteristics (Continued)

Figure 12. Transient Thermal Response Curve for FDP5N50NZ

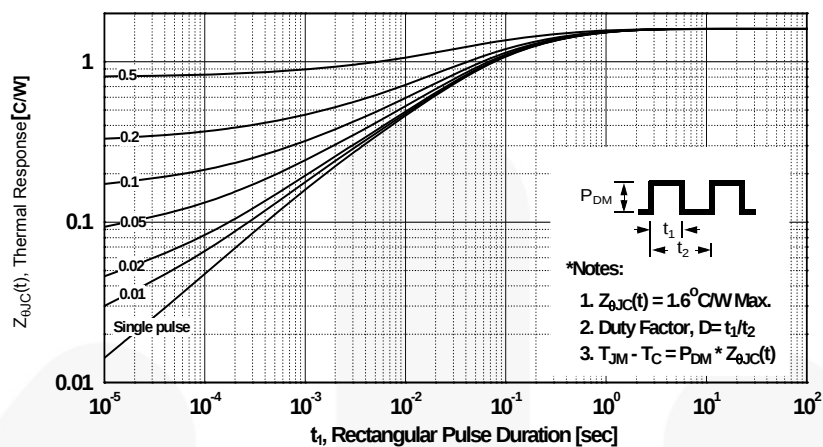
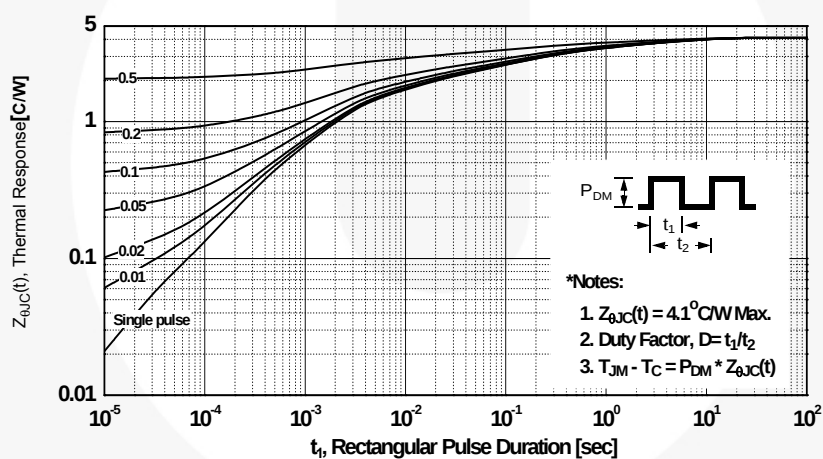


Figure 13. Transient Thermal Response Curve for FDPF5N50NZ



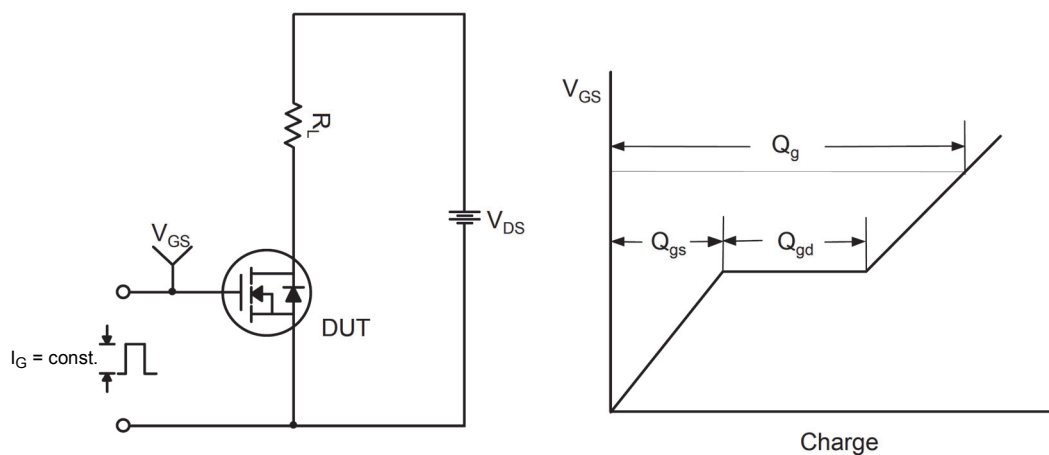


Figure 14. Gate Charge Test Circuit & Waveform

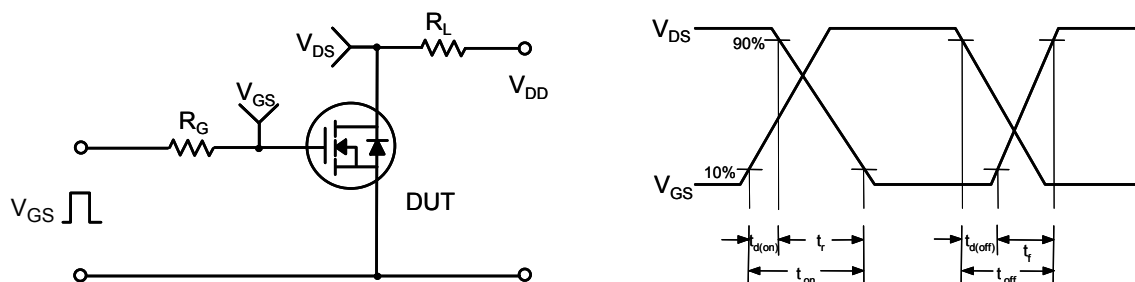


Figure 15. Resistive Switching Test Circuit & Waveforms



Figure 16. Unclamped Inductive Switching Test Circuit & Waveforms

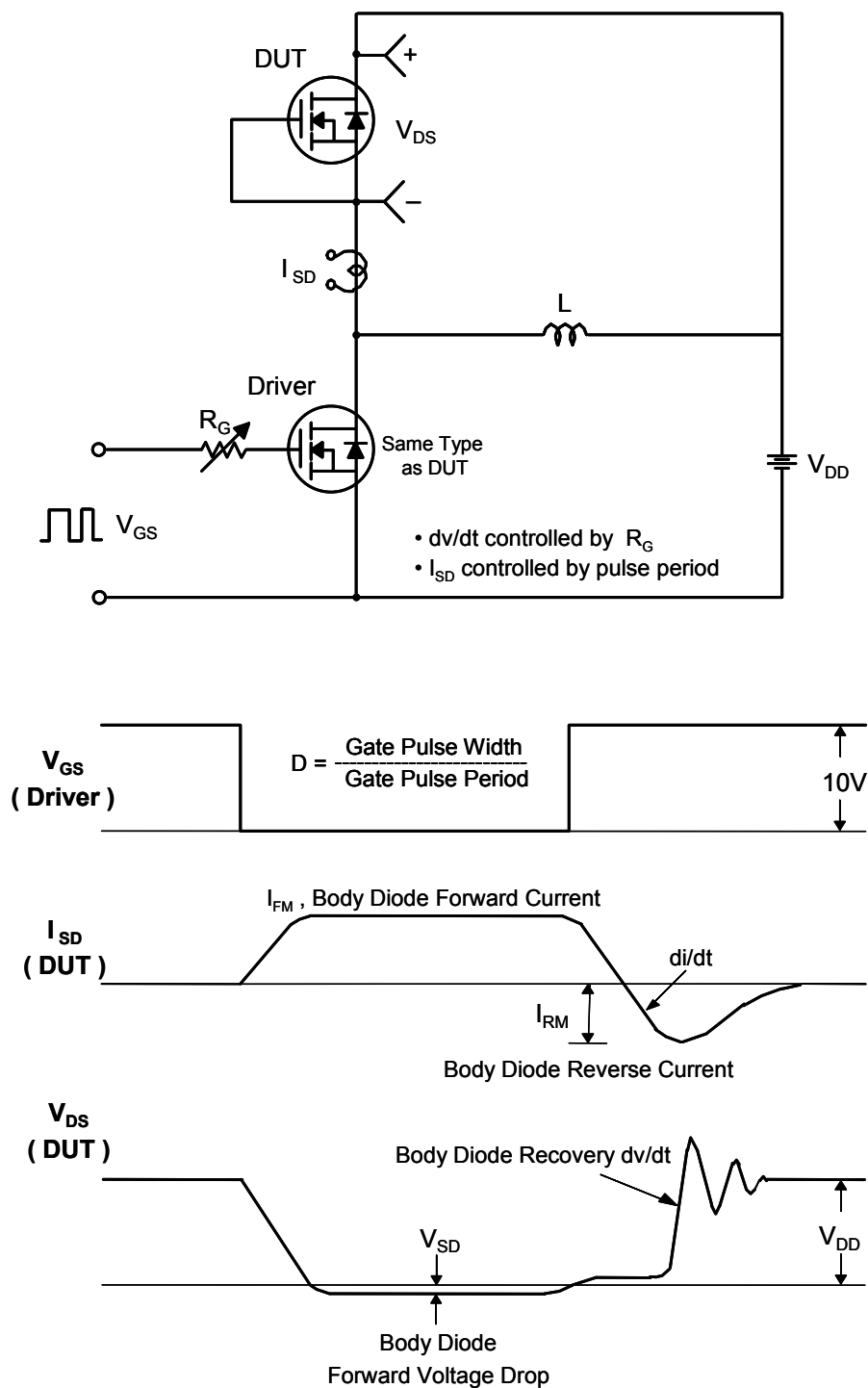
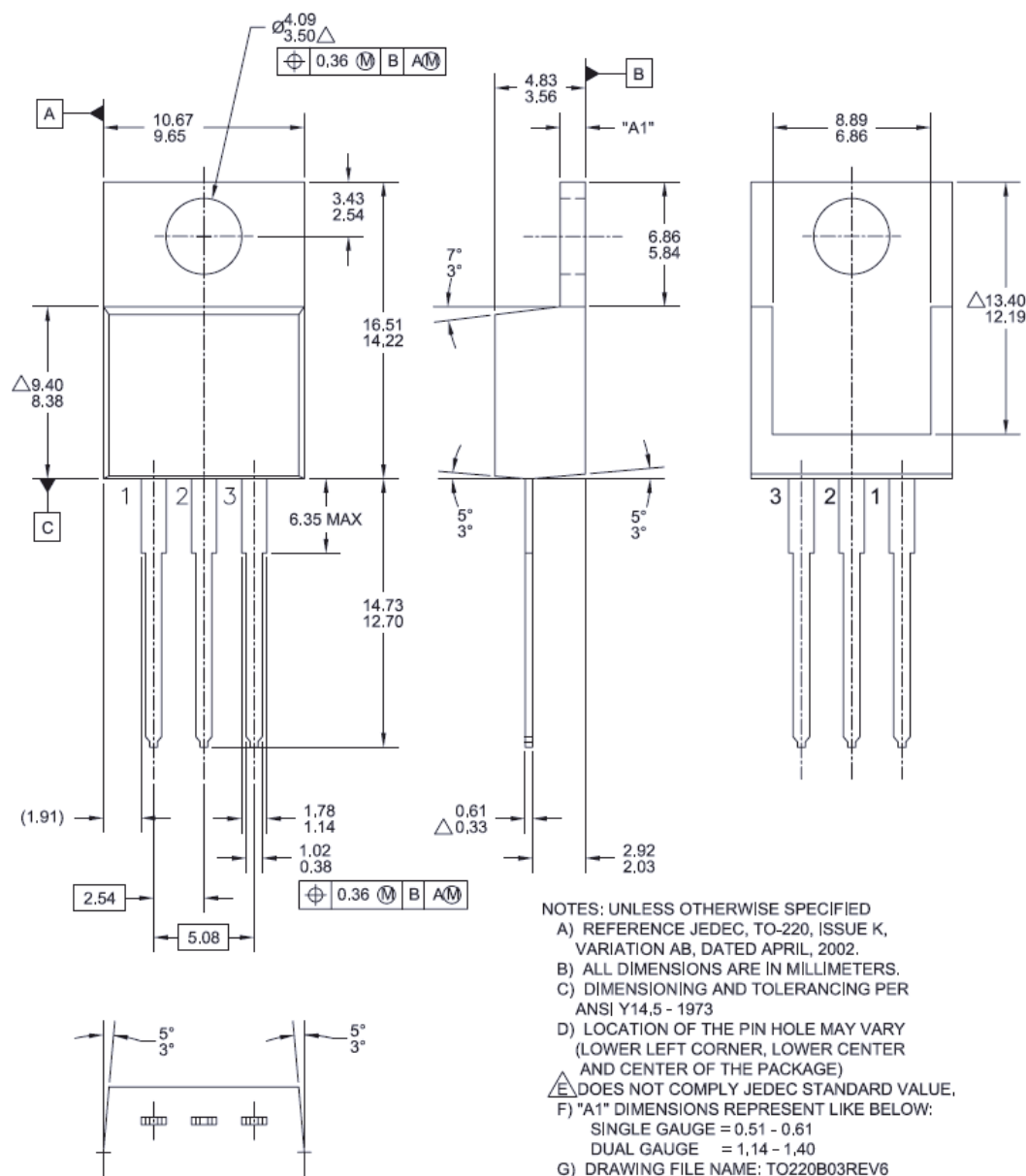


Figure 17. Peak Diode Recovery  $dv/dt$  Test Circuit & Waveforms

# Mechanical Dimensions



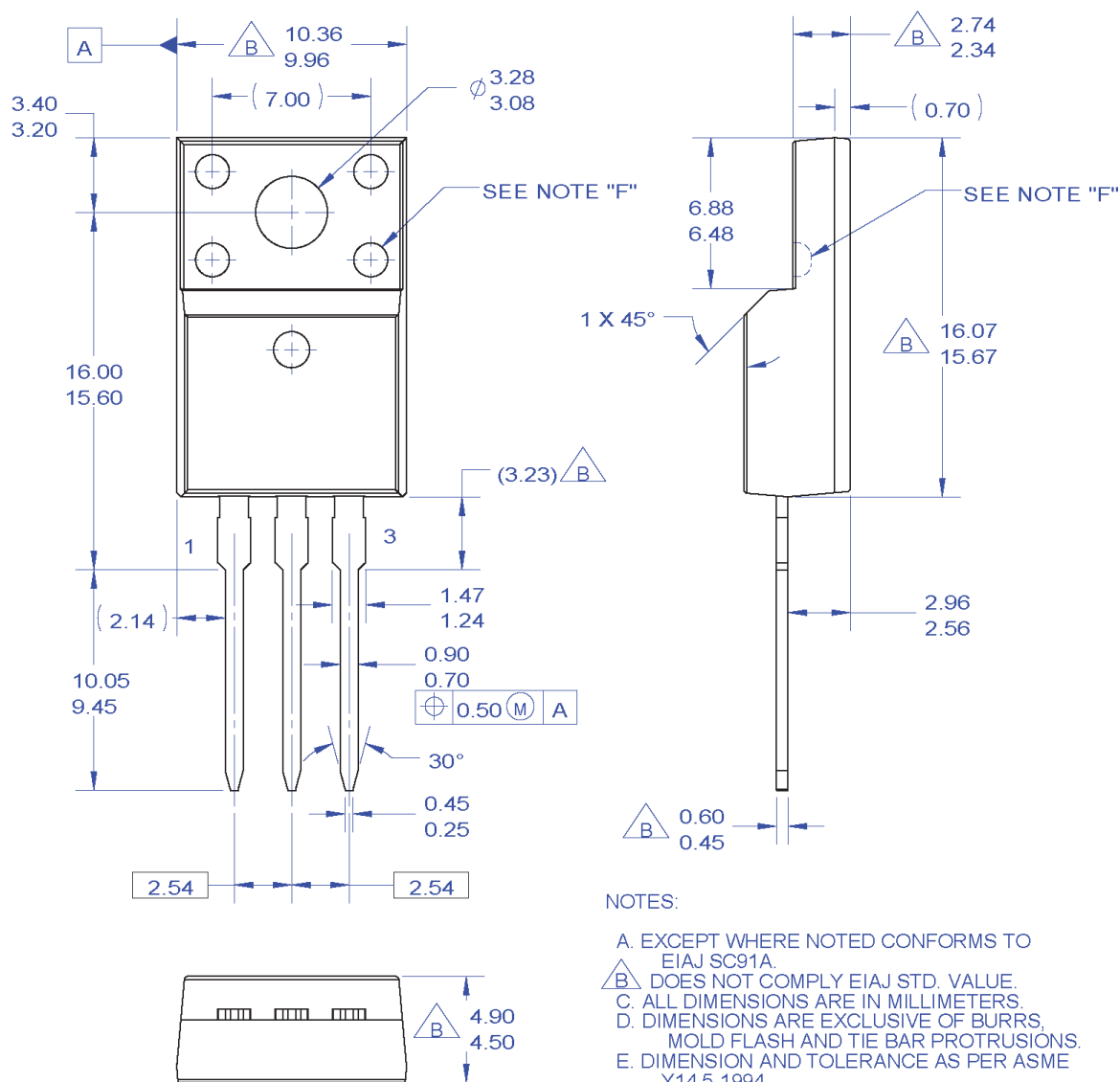
**Figure 18. TO-220, Molded, 3-Lead, Jedec Variation AB**

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## Mechanical Dimensions



**Figure 19. TO220, Molded, 3-Lead, Full Pack, EIAJ SC91, Straight Lead**

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