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# FDP8N50NZ / FDPF8N50NZ N-Channel UniFET™ II MOSFET 500 V, 8 A, 850 mΩ

## Features

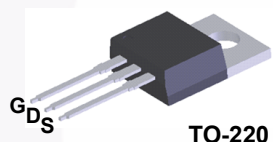
- $R_{DS(on)} = 770\text{ m}\Omega$  (Typ.) @  $V_{GS} = 10\text{ V}$ ,  $I_D = 4\text{ A}$
- Low Gate Charge (Typ. 14 nC)
- Low  $C_{rss}$  (Typ. 5 pF)
- 100% Avalanche Tested
- Improve dv/dt Capability
- ESD Improved Capability
- RoHS Compliant

## Applications

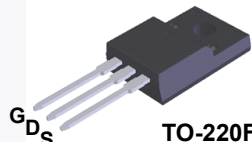
- LCD/LED TV
- Lighting
- Uninterruptible Power Supply
- AC-DC Power Supply

## Description

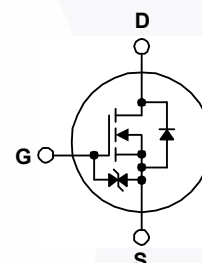
UniFET™ II MOSFET is Fairchild Semiconductor's high voltage MOSFET family based on advanced planar stripe and DMOS technology. This advanced MOSFET family has the smallest on-state resistance among the planar MOSFET, and also provides superior switching performance and higher avalanche energy strength. 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 $T_C = 25^\circ\text{C}$ unless otherwise noted\*

| Symbol         | Parameter  | FDP8N50NZ                                  | FDPF8N50NZ | Unit             |
|----------------|--|--|------------|------------------|
| $V_{DSS}$      | Drain to Source Voltage  | 500  |            | V                |
| $V_{GSS}$      | Gate to Source Voltage   | $\pm 25$                                   |            | V                |
| $I_D$          | Drain Current  | - Continuous ( $T_C = 25^\circ\text{C}$ )  | 8          | A                |
|                |  | - Continuous ( $T_C = 100^\circ\text{C}$ ) | 4.8        |                  |
| $I_{DM}$       | Drain Current  | - Pulsed (Note 1)                          | 32         | A                |
| $E_{AS}$       | Single Pulsed Avalanche Energy   | (Note 2)                                   | 122        | mJ               |
| $I_{AR}$       | Avalanche Current  | (Note 1)                                   | 8          | A                |
| $E_{AR}$       | Repetitive Avalanche Energy  | (Note 1)                                   | 13         | mJ               |
| dv/dt          | Peak Diode Recovery dv/dt  | (Note 3)                                   | 10         | V/ns             |
| $P_D$          | Power Dissipation  | ( $T_C = 25^\circ\text{C}$ )               | 130        | W                |
|                |  | - Derate above $25^\circ\text{C}$          | 1          |                  |
| $T_J, T_{STG}$ | Operating and Storage Temperature Range                                      | $-55$ to $+150$                            |            | $^\circ\text{C}$ |
| $T_L$          | Maximum Lead Temperature for Soldering Purpose, 1/8" from Case for 5 Seconds | 300  |            | $^\circ\text{C}$ |

\*Drain current limited by maximum junction temperature

## Thermal Characteristics

| Symbol          | Parameter                                     | FDP8N50NZ | FDPF8N50NZ | Unit               |
|-----------------|---|-----------|------------|--------------------|
| $R_{\theta JC}$ | Thermal Resistance, Junction to Case, Max.    | 0.96      | 3.1        | $^\circ\text{C/W}$ |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient, Max. | 62.5      | 62.5       |                    |

## Package Marking and Ordering Information

| Device Marking | Device     | Package | Reel Size | Tape Width | Quantity |
|----------------|------------|---------|-----------|------------|----------|
| FDP8N50NZ      | FDP8N50NZ  | TO-220  | Tube      | N/A        | 50 units |
| FDPF8N50NZ     | FDPF8N50NZ | TO-220F | Tube      | 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 | -        | $\text{V}/^\circ\text{C}$ |
| $I_{DSS}$                      | Zero Gate Voltage Drain Current           | $V_{DS} = 500\text{V}$ , $V_{GS} = 0\text{V}$<br>$V_{DS} = 400\text{V}$ , $T_C = 125^\circ\text{C}$ | -   | -   | 1<br>10  | $\mu\text{A}$             |
| $I_{GSS}$                      | 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 | $V_{GS} = 10\text{V}$ , $I_D = 4\text{A}$  | -   | 0.77 | 0.85 | $\Omega$ |
| $g_{FS}$     | Forward Transconductance             | $V_{DS} = 20\text{V}$ , $I_D = 4\text{A}$  | -   | 6.3  | -    | S        |

### Dynamic Characteristics

|              |                               |   |   |     |     |    |
|--------------|-------------------------------|---|---|-----|-----|----|
| $C_{iss}$    | Input Capacitance             | $V_{DS} = 25\text{V}$ , $V_{GS} = 0\text{V}$<br>$f = 1\text{MHz}$               | - | 565 | 735 | pF |
| $C_{oss}$    | Output Capacitance            |   | - | 80  | 105 | pF |
| $C_{rss}$    | Reverse Transfer Capacitance  |   | - | 5   | 8   | pF |
| $Q_{g(tot)}$ | Total Gate Charge at 10V      | $V_{DS} = 400\text{V}$ , $I_D = 8\text{A}$<br>$V_{GS} = 10\text{V}$<br>(Note 4) | - | 14  | 18  | nC |
| $Q_{gs}$     | Gate to Source Gate Charge    |   | - | 4   | -   | nC |
| $Q_{gd}$     | Gate to Drain "Miller" Charge |   | - | 6   | -   | nC |

### Switching Characteristics

|              |                     |  |   |    |    |    |
|--------------|---------------------|--|---|----|----|----|
| $t_{d(on)}$  | Turn-On Delay Time  | $V_{DD} = 250\text{V}$ , $I_D = 8\text{A}$<br>$R_G = 25\Omega$ , $V_{GS} = 10\text{V}$<br>(Note 4) | - | 17 | 45 | ns |
| $t_r$        | Turn-On Rise Time   |  | - | 34 | 80 | ns |
| $t_{d(off)}$ | Turn-Off Delay Time |  | - | 43 | 95 | ns |
| $t_f$        | Turn-Off Fall Time  |  | - | 27 | 60 | ns |

### Drain-Source Diode Characteristics

|                 |  |  |   |      |     |    |
|-----------------|--|--|---|------|-----|----|
| I <sub>S</sub>  | Maximum Continuous Drain to Source Diode Forward Current |  | - | -    | 8   | A  |
| I <sub>SM</sub> | Maximum Pulsed Drain to Source Diode Forward Current     |  | - | -    | 30  | A  |
| V <sub>SD</sub> | Drain to Source Diode Forward Voltage                    | V <sub>GS</sub> = 0V, I <sub>SD</sub> = 8A | - | -    | 1.4 | V  |
| t <sub>rr</sub> | Reverse Recovery Time                                    | V <sub>GS</sub> = 0V, I <sub>SD</sub> = 8A | - | 228  | -   | ns |
| Q <sub>rr</sub> | Reverse Recovery Charge                                  | dI <sub>F</sub> /dt = 100A/μs              | - | 1.43 | -   | μC |

#### Notes:

1. Repetitive Rating: Pulse width limited by maximum junction temperature
2.  $L = 3.8\text{mH}$ ,  $I_{AS} = 8\text{A}$ ,  $V_{DD} = 50\text{V}$ ,  $R_G = 25\Omega$ , Starting  $T_J = 25^\circ\text{C}$
3.  $I_{SD} \leq 8\text{A}$ ,  $di/dt \leq 200\text{A}/\mu\text{s}$ ,  $V_{DD} \leq BV_{DSS}$ , Starting  $T_J = 25^\circ\text{C}$
4. Essentially Independent of Operating Temperature Typical Characteristics

## Typical Characteristics

Figure 1. On-Region Characteristics

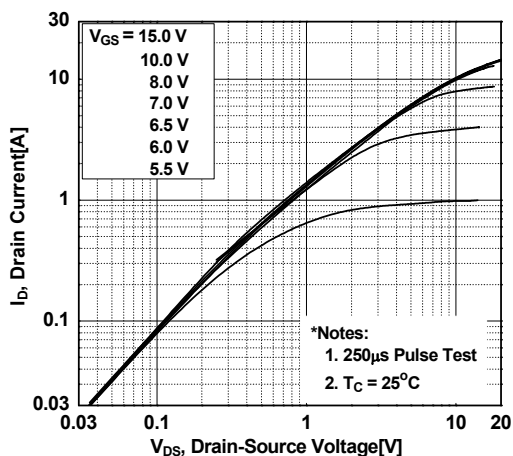


Figure 2. Transfer Characteristics

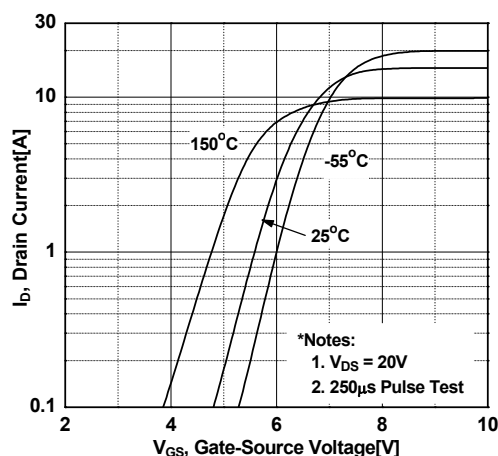


Figure 3. On-Resistance Variation vs. Drain Current and Gate Voltage

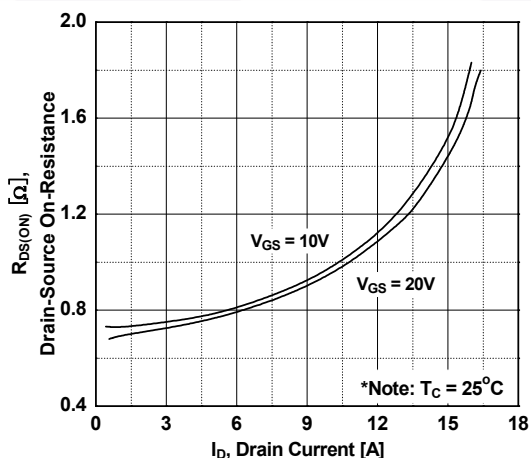


Figure 4. Body Diode Forward Voltage Variation vs. Source Current and Temperature

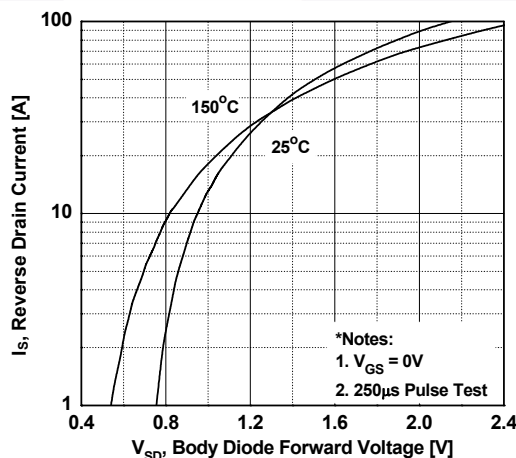


Figure 5. Capacitance Characteristics

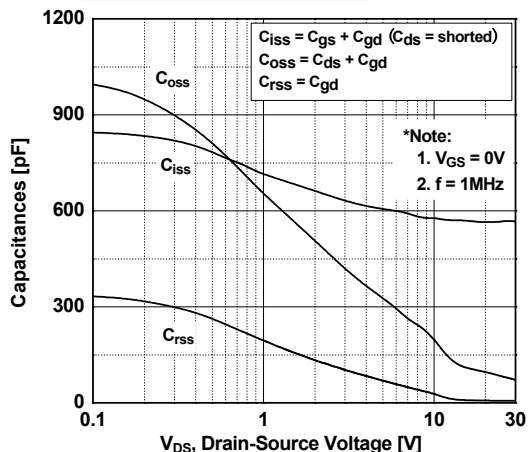
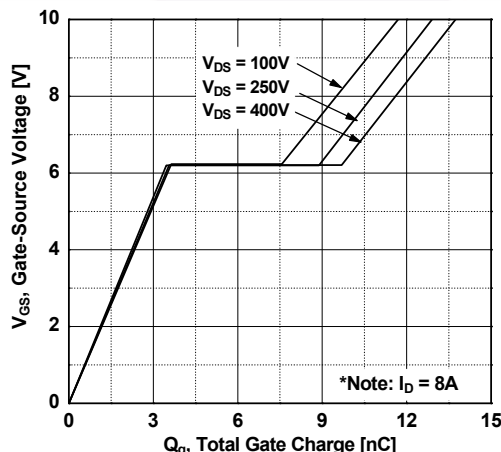
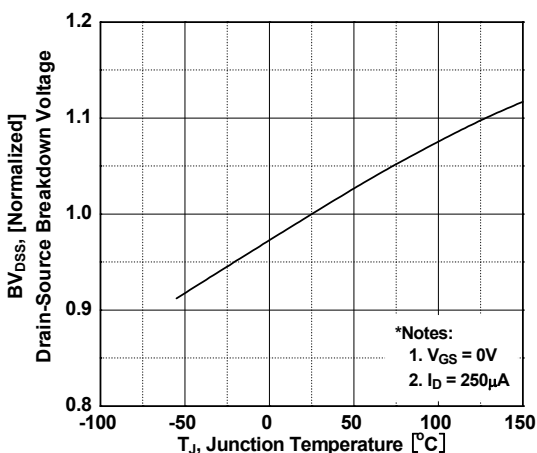


Figure 6. Gate Charge Characteristics

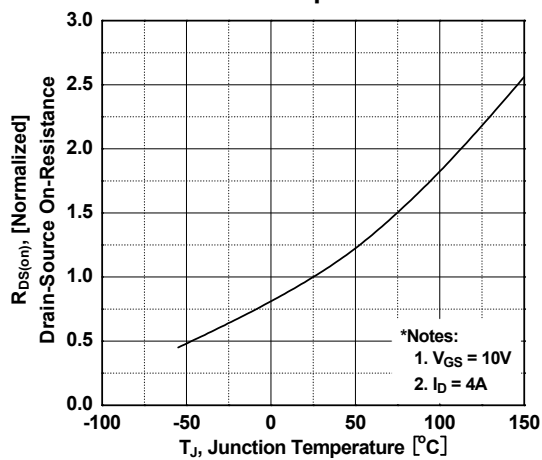


# Typical Characteristics (Continued)

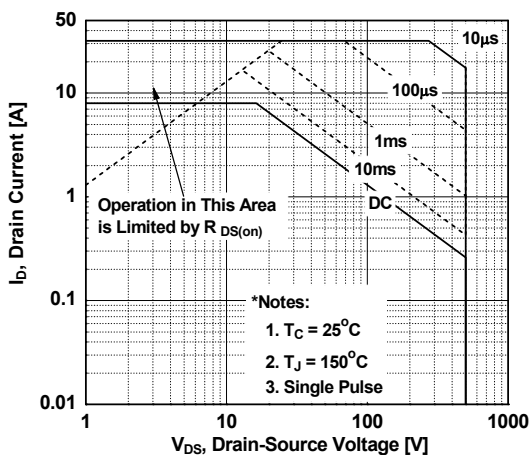
**Figure 7. Breakdown Voltage Variation vs. Temperature**



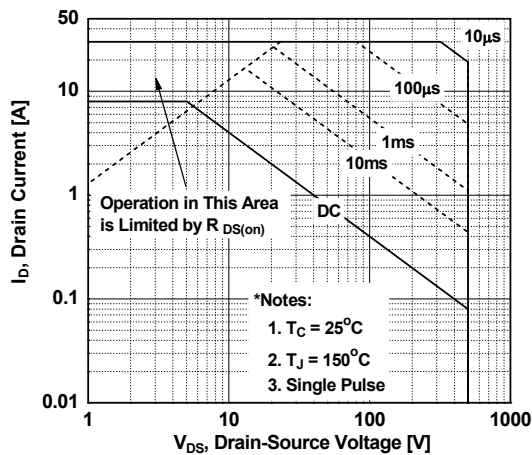
**Figure 8. On-Resistance Variation vs. Temperature**



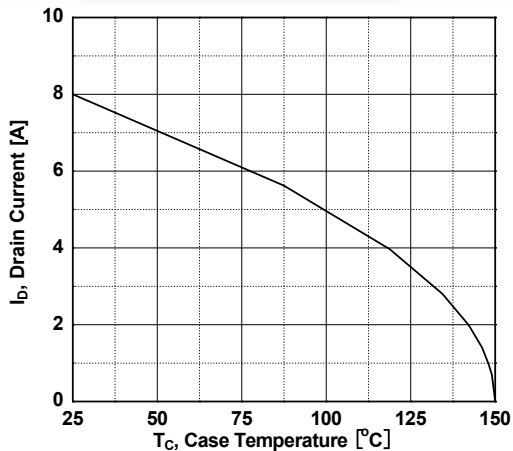
**Figure 9. Maximum Safe Operating Area - FDP8N50NZ**



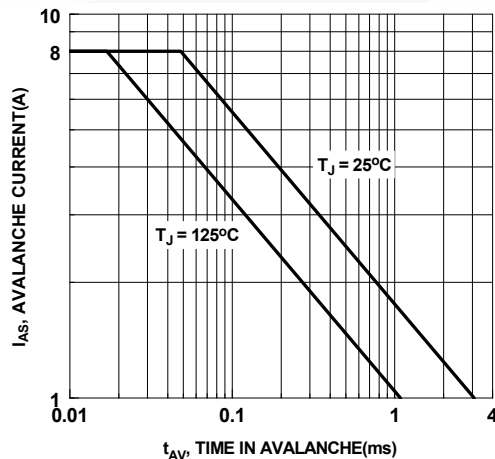
**Figure 10. Maximum Safe Operating Area - FDPF8N50NZ**



**Figure 11. Maximum Drain Current vs. Case Temperature**



**Figure 12. Unclamped Inductive Switching Capability**



## Typical Characteristics (Continued)

Figure 13. Transient Thermal Response Curve - FDP8N50NZ

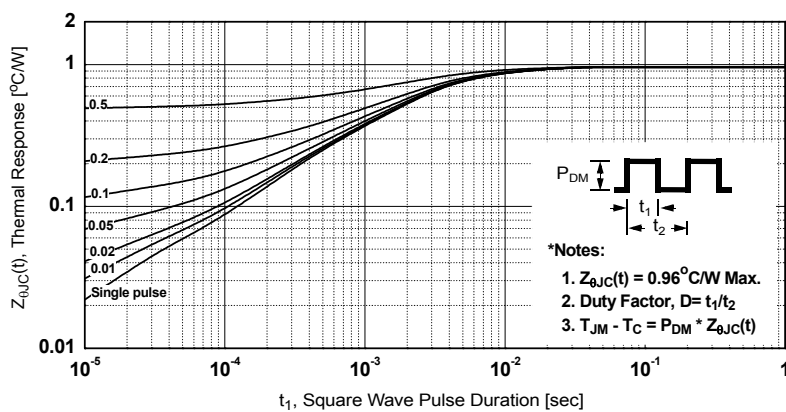


Figure 14. Transient Thermal Response Curve - FDPF8N50NZ

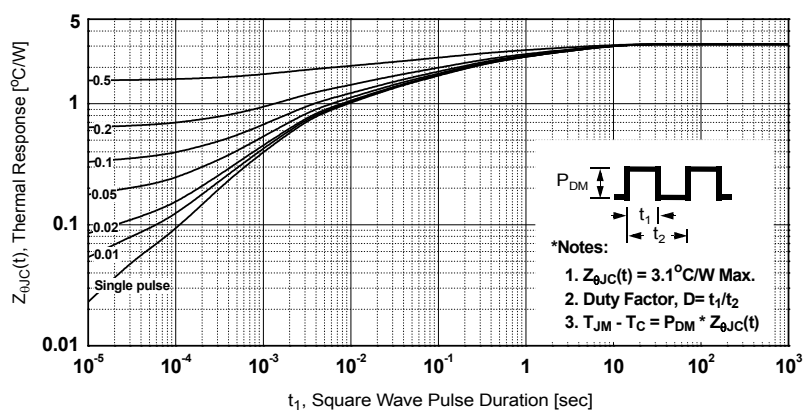


Figure 15. Gate Charge Test Circuit & Waveform

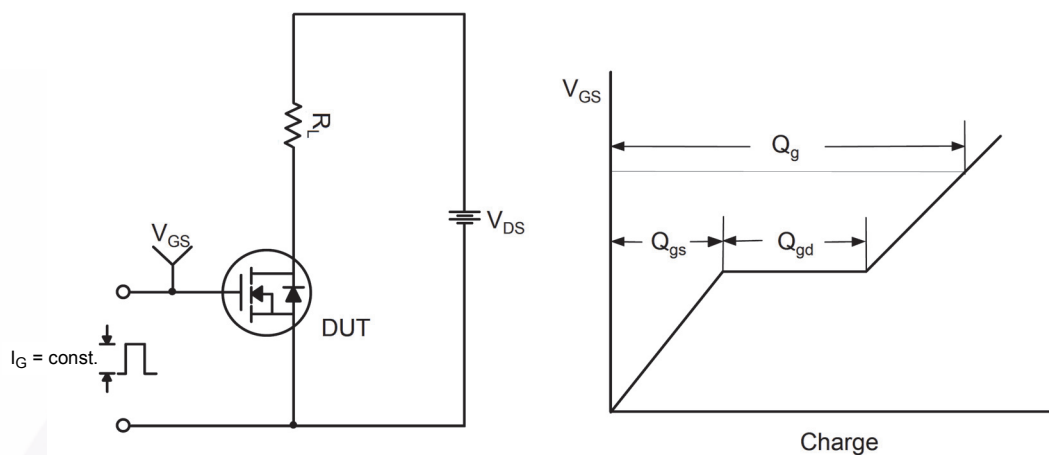


Figure 16. Resistive Switching Test Circuit & Waveforms

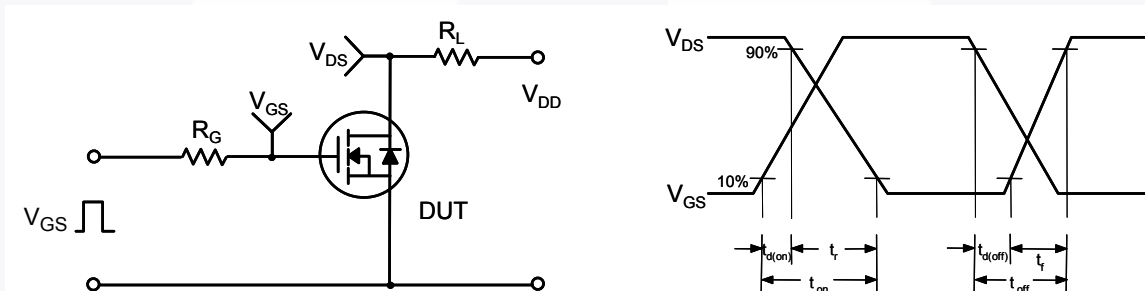


Figure 17. Unclamped Inductive Switching Test Circuit & Waveforms

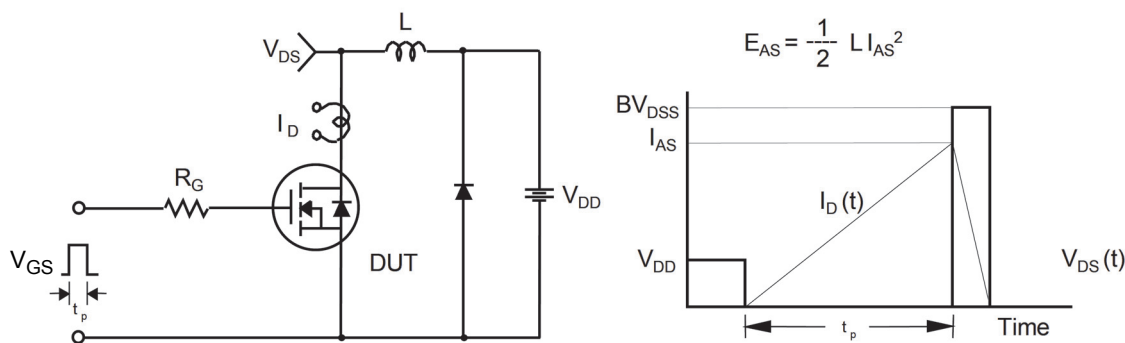
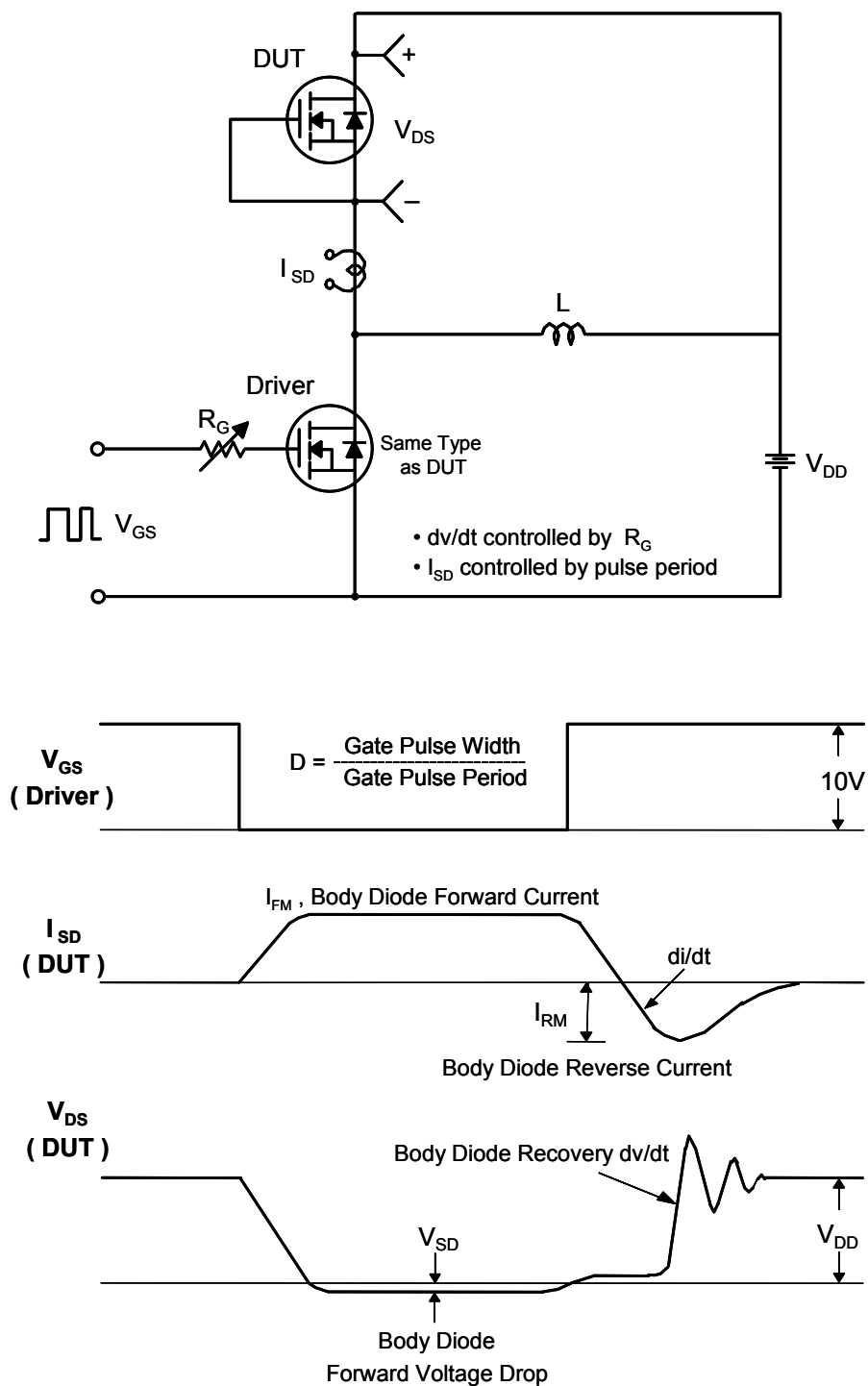


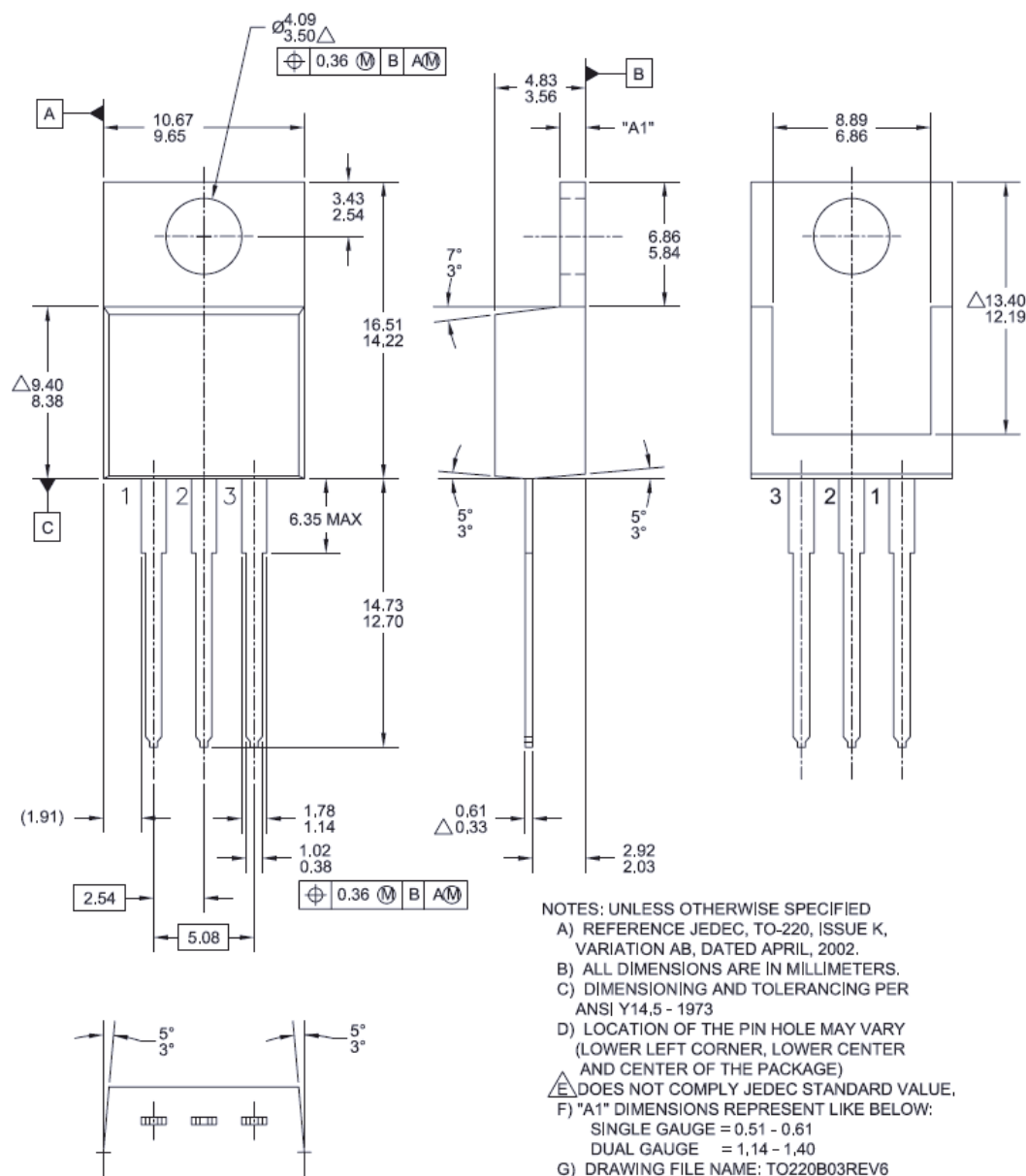
Figure 18. Peak Diode Recovery dv/dt Test Circuit & Waveforms





## Mechanical Dimensions

# TO-220 3L



**Figure 19. TO-220, Molded, 3Lead, Jedec Variation AB**

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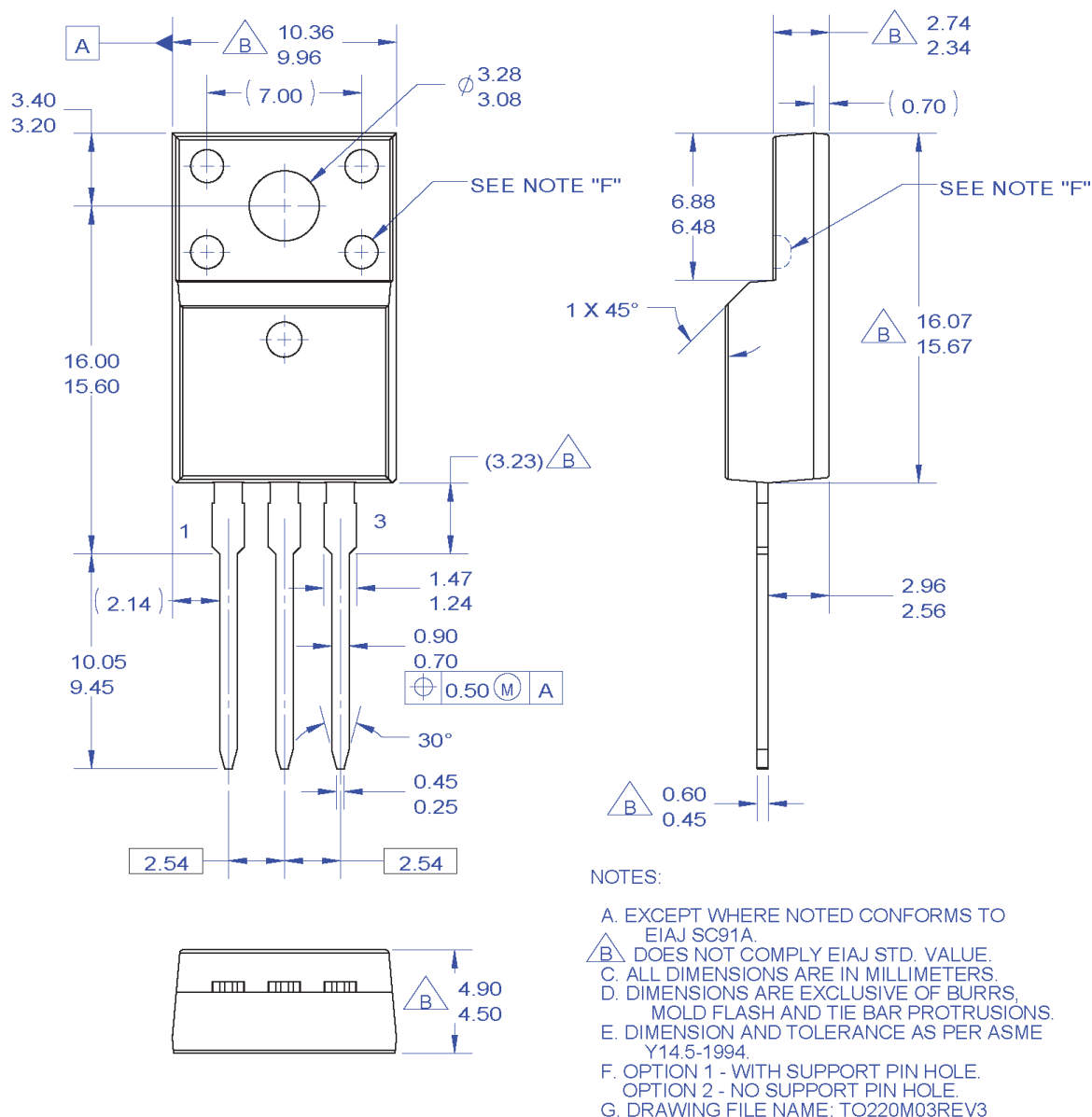
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Dimension in Millimeters

## Mechanical Dimensions

# TO-220F 3L



**Figure 20. TO220, Molded, 3LD, Full Pack, EIAJ SC91, Straight Lead**

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Dimension in Millimeters



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| Build it Now™   | GreenBridge™                                    | QFET®                      | TinyBuck®   |
| CorePLUS™   | Green FPS™                                      | QS™                        | TinyCalc™   |
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