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June 2014

# FDA16N50\_F109

## N-Channel UniFET™ MOSFET

500V, 16.5 A, 380 mΩ

### Features

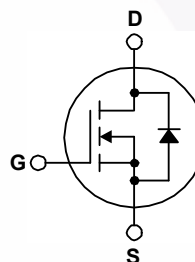
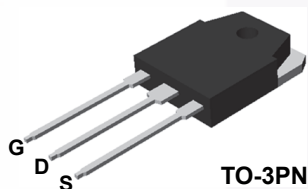
- $R_{DS(on)} = 380 \text{ m}\Omega$  (Max.) @  $V_{GS} = 10$ ,  $I_D = 8.3 \text{ A}$
- Low Gate Charge (Typ. 32 nC)
- Low  $C_{rss}$  (Typ. 20 pF)
- 100% Avalanche Tested

### Applications

- PDP TV
- Uninterruptible Power Supply

### Description

UniFET™ MOSFET is Fairchild Semiconductor's high voltage MOSFET family based on planar stripe and DMOS technology. This MOSFET is tailored to reduce on-state resistance, and to provide better switching performance and higher avalanche energy strength. 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.



### Absolute Maximum Ratings $T_C = 25^\circ\text{C}$ unless otherwise noted.

| Symbol         | Parameter                                                                    |                                            | FDA16N50_F109 | Unit                |
|----------------|------------------------------------------------------------------------------|--------------------------------------------|---------------|---------------------|
| $V_{DSS}$      | Drain-Source Voltage                                                         |                                            | 500           | V                   |
| $I_D$          | Drain Current                                                                | - Continuous ( $T_C = 25^\circ\text{C}$ )  | 16.5          | A                   |
|                |                                                                              | - Continuous ( $T_C = 100^\circ\text{C}$ ) | 9.9           | A                   |
| $I_{DM}$       | Drain Current                                                                | - Pulsed (Note 1)                          | 66            | A                   |
| $V_{GSS}$      | Gate-Source voltage                                                          |                                            | $\pm 30$      | V                   |
| $E_{AS}$       | Single Pulsed Avalanche Energy (Note 2)                                      |                                            | 780           | mJ                  |
| $I_{AR}$       | Avalanche Current (Note 1)                                                   |                                            | 16.5          | A                   |
| $E_{AR}$       | Repetitive Avalanche Energy (Note 1)                                         |                                            | 20.5          | mJ                  |
| $dv/dt$        | Peak Diode Recovery $dv/dt$ (Note 3)                                         |                                            | 4.5           | V/ns                |
| $P_D$          | Power Dissipation                                                            | ( $T_C = 25^\circ\text{C}$ )               | 205           | W                   |
|                |                                                                              | - Derate above $25^\circ\text{C}$          | 2.1           | W/ $^\circ\text{C}$ |
| $T_J, T_{STG}$ | 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           | $^\circ\text{C}$    |

### Thermal Characteristics

| Symbol          | Parameter                                     | FDA16N50_F109 | Unit               |
|-----------------|-----------------------------------------------|---------------|--------------------|
| $R_{\theta JC}$ | Thermal Resistance, Junction-to-Case, Max.    | 0.6           | $^\circ\text{C/W}$ |
| $R_{\theta JA}$ | Thermal Resistance, Junction-to-Ambient, Max. | 40            |                    |

## Package Marking and Ordering Information

| Device Marking | Device        | Package | Reel Size | Tape Width | Quantity |
|----------------|---------------|---------|-----------|------------|----------|
| FDA16N50       | FDA16N50_F109 | TO-3PN  | Tube      | N/A        | 30 units |

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

| Symbol                                                 | Parameter                                             | Conditions                                                                                     | Min.     | Typ.     | Max     | Unit     |
|--------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------|----------|----------|---------|----------|
| Off Characteristics                                    |                                                       |                                                                                                |          |          |         |          |
| BV <sub>DSS</sub>                                      | Drain-Source Breakdown Voltage                        | V <sub>GS</sub> = 0V, I <sub>D</sub> = 250μA                                                   | 500      | --       | --      | V        |
| ΔBV <sub>DSS</sub> / ΔT <sub>J</sub>                   | Breakdown Voltage Temperature Coefficient             | I <sub>D</sub> = 250μA, Referenced to 25°C                                                     | --       | 0.5      | --      | V/°C     |
| I <sub>DSS</sub>                                       | Zero Gate Voltage Drain Current                       | V <sub>DS</sub> = 500V, V <sub>GS</sub> = 0V<br>V <sub>DS</sub> = 400V, T <sub>C</sub> = 125°C | --<br>-- | --<br>-- | 1<br>10 | μA<br>μA |
| I <sub>GSSF</sub>                                      | Gate-Body Leakage Current, Forward                    | V <sub>GS</sub> = 30V, V <sub>DS</sub> = 0V                                                    | --       | --       | 100     | nA       |
| I <sub>GSSR</sub>                                      | Gate-Body Leakage Current, Reverse                    | V <sub>GS</sub> = -30V, V <sub>DS</sub> = 0V                                                   | --       | --       | -100    | nA       |
| On Characteristics                                     |                                                       |                                                                                                |          |          |         |          |
| V <sub>GS(th)</sub>                                    | Gate Threshold Voltage                                | V <sub>DS</sub> = V <sub>GS</sub> , I <sub>D</sub> = 250μA                                     | 3.0      | --       | 5.0     | V        |
| R <sub>DS(on)</sub>                                    | Static Drain-Source On-Resistance                     | V <sub>GS</sub> = 10V, I <sub>D</sub> = 8.3A                                                   | --       | 0.31     | 0.38    | Ω        |
| g <sub>FS</sub>                                        | Forward Transconductance                              | V <sub>DS</sub> = 40V, I <sub>D</sub> = 8.3A                                                   | --       | 23       | --      | S        |
| Dynamic Characteristics                                |                                                       |                                                                                                |          |          |         |          |
| C <sub>iss</sub>                                       | Input Capacitance                                     | V <sub>DS</sub> = 25V, V <sub>GS</sub> = 0V,<br>f = 1.0MHz                                     | --       | 1495     | 1945    | pF       |
| C <sub>oss</sub>                                       | Output Capacitance                                    |                                                                                                | --       | 235      | 310     | pF       |
| C <sub>rss</sub>                                       | Reverse Transfer Capacitance                          |                                                                                                | --       | 20       | 30      | pF       |
| Switching Characteristics                              |                                                       |                                                                                                |          |          |         |          |
| t <sub>d(on)</sub>                                     | Turn-On Delay Time                                    | V <sub>DD</sub> = 250V, I <sub>D</sub> = 16A<br>R <sub>G</sub> = 25Ω<br><br>(Note 4)           | --       | 40       | 90      | ns       |
| t <sub>r</sub>                                         | Turn-On Rise Time                                     |                                                                                                | --       | 150      | 310     | ns       |
| t <sub>d(off)</sub>                                    | Turn-Off Delay Time                                   |                                                                                                | --       | 65       | 140     | ns       |
| t <sub>f</sub>                                         | Turn-Off Fall Time                                    |                                                                                                | --       | 80       | 170     | ns       |
| Q <sub>g</sub>                                         | Total Gate Charge                                     | V <sub>DS</sub> = 400V, I <sub>D</sub> = 16A<br>V <sub>GS</sub> = 10V<br><br>(Note 4)          | --       | 32       | 45      | nC       |
| Q <sub>gs</sub>                                        | Gate-Source Charge                                    |                                                                                                | --       | 8.5      | --      | nC       |
| Q <sub>gd</sub>                                        | Gate-Drain Charge                                     |                                                                                                | --       | 14       | --      | nC       |
| Drain-Source Diode Characteristics and Maximum Ratings |                                                       |                                                                                                |          |          |         |          |
| I <sub>S</sub>                                         | Maximum Continuous Drain-Source Diode Forward Current |                                                                                                | --       | --       | 9.2     | A        |
| I <sub>SM</sub>                                        | Maximum Pulsed Drain-Source Diode Forward Current     |                                                                                                | --       | --       | 37      | A        |
| V <sub>SD</sub>                                        | Drain-Source Diode Forward Voltage                    | V <sub>GS</sub> = 0V, I <sub>S</sub> = 16.5A                                                   | --       | --       | 1.4     | V        |
| t <sub>rr</sub>                                        | Reverse Recovery Time                                 | V <sub>GS</sub> = 0V, I <sub>S</sub> = 16A                                                     | --       | 490      | --      | ns       |
| Q <sub>rr</sub>                                        | Reverse Recovery Charge                               | dI <sub>F</sub> /dt =100A/μs                                                                   | --       | 5.0      | --      | μC       |

### NOTES:

1. Repetitive Rating: Pulse width limited by maximum junction temperature
2.  $L = 5.1\text{mH}$ ,  $I_{AS} = 16.5A$ ,  $V_{DD} = 50V$ ,  $R_G = 25\Omega$ , Starting  $T_J = 25^\circ\text{C}$
3.  $I_{SD} \leq 16.5A$ ,  $dI/dt \leq 200A/\mu s$ ,  $V_{DD} \leq BV_{DSS}$ , Starting  $T_J = 25^\circ\text{C}$
4. Essentially Independent of Operating Temperature Typical Characteristics

## Typical Characteristics

Figure 1. On-Region Characteristics

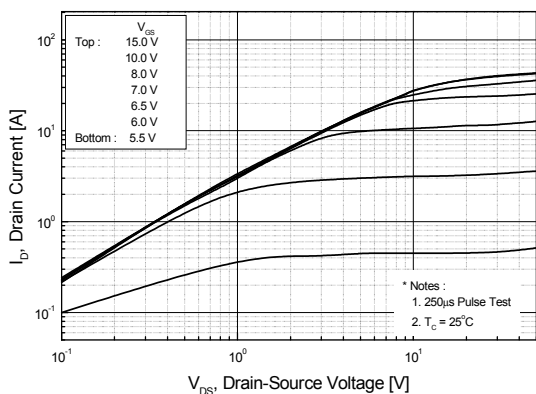


Figure 2. Transfer Characteristics

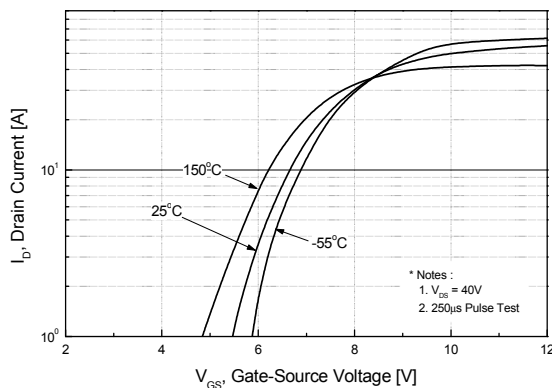


Figure 3. On-Resistance Variation vs. Drain Current and Gate Voltage

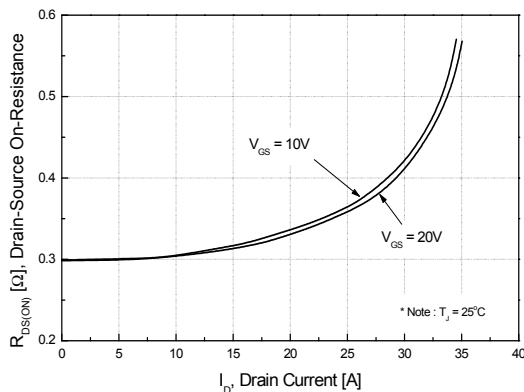


Figure 4. Body Diode Forward Voltage Variation vs. Source Current and Temperature

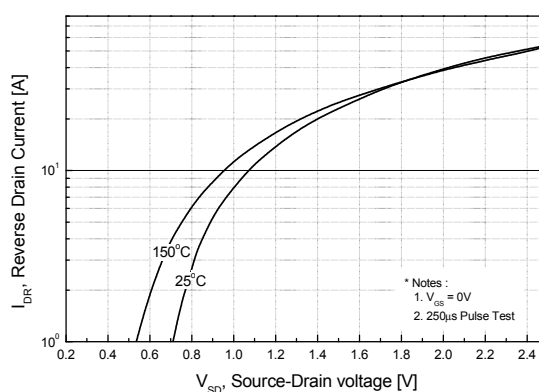


Figure 5. Capacitance Characteristics

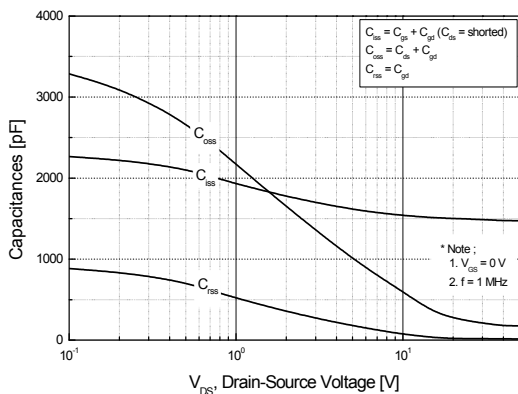
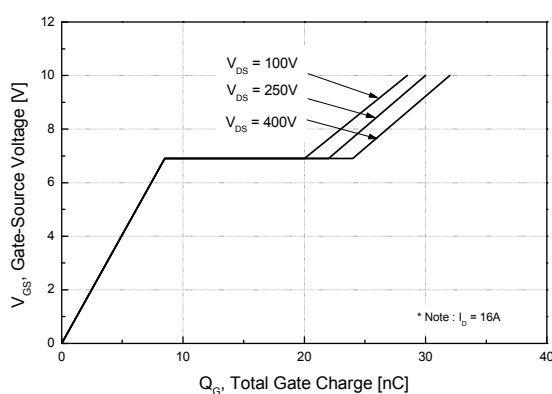
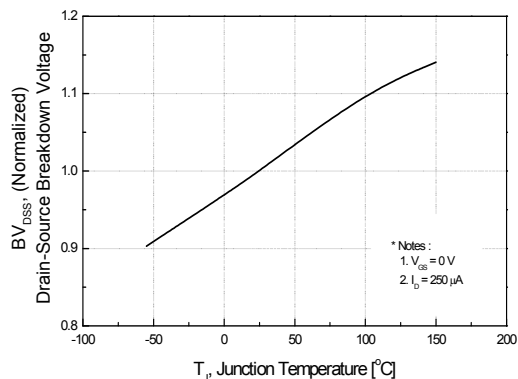


Figure 6. Gate Charge Characteristics

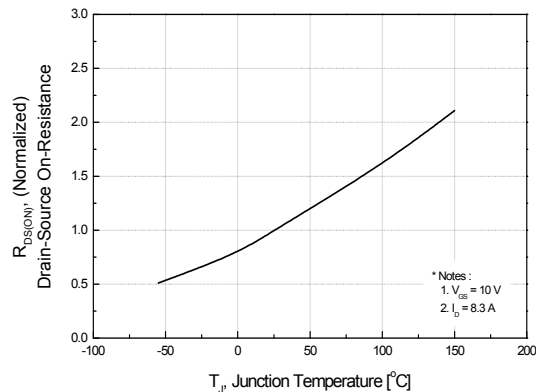


# Typical Characteristics (Continued)

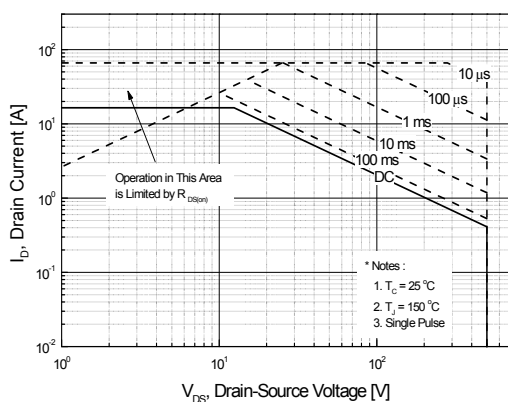
**Figure 7. Breakdown Voltage Variation vs. Temperature**



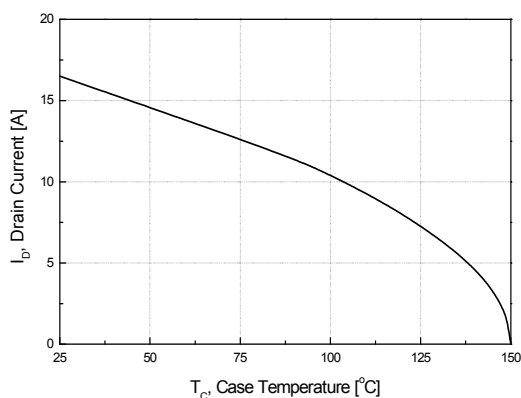
**Figure 8. On-Resistance Variation vs. Temperature**



**Figure 9. Maximum Safe Operating Area**



**Figure 10. Maximum Drain Current vs. Case Temperature**



**Figure 11. Transient Thermal Response Curve**

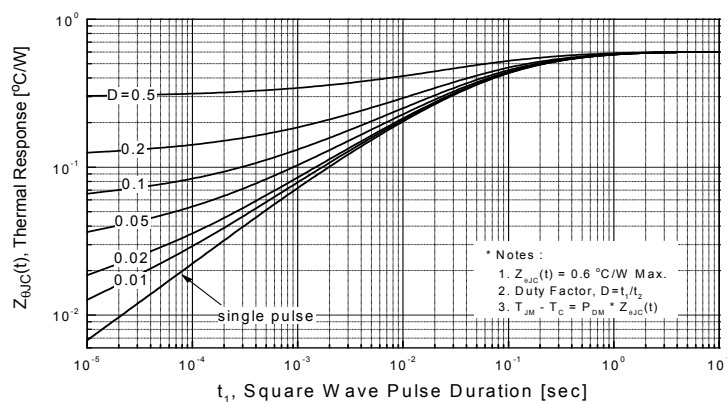


Figure 12. Gate Charge Test Circuit & Waveform

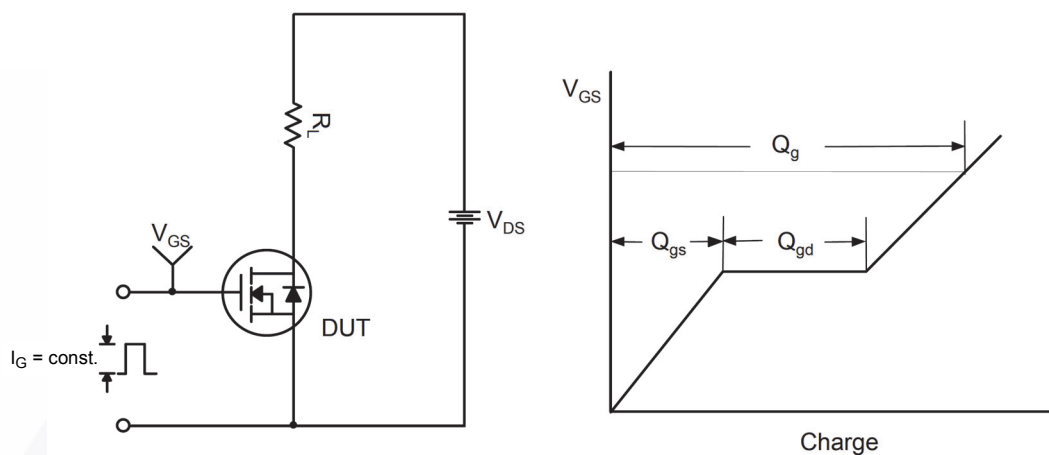


Figure 13. Resistive Switching Test Circuit & Waveforms

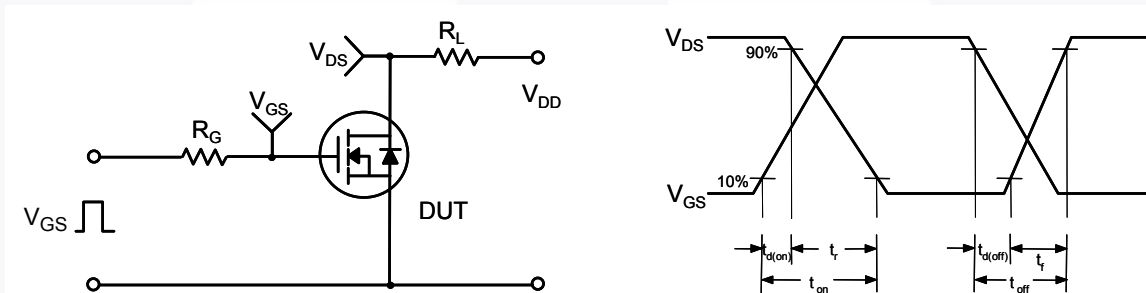
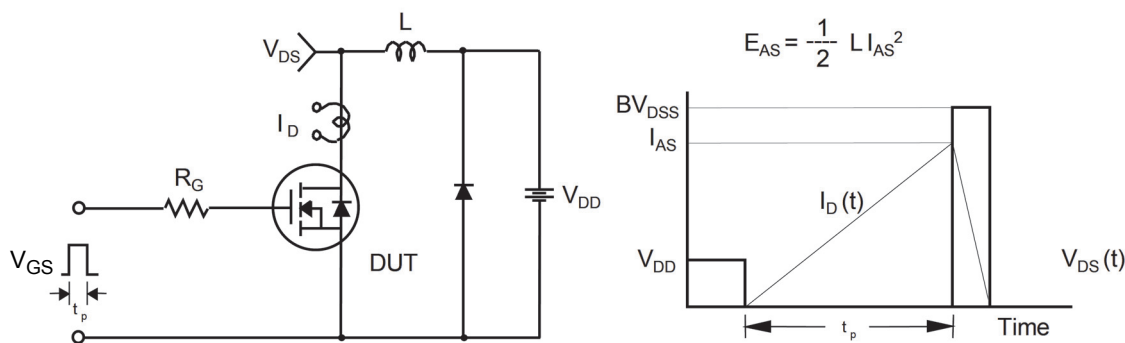
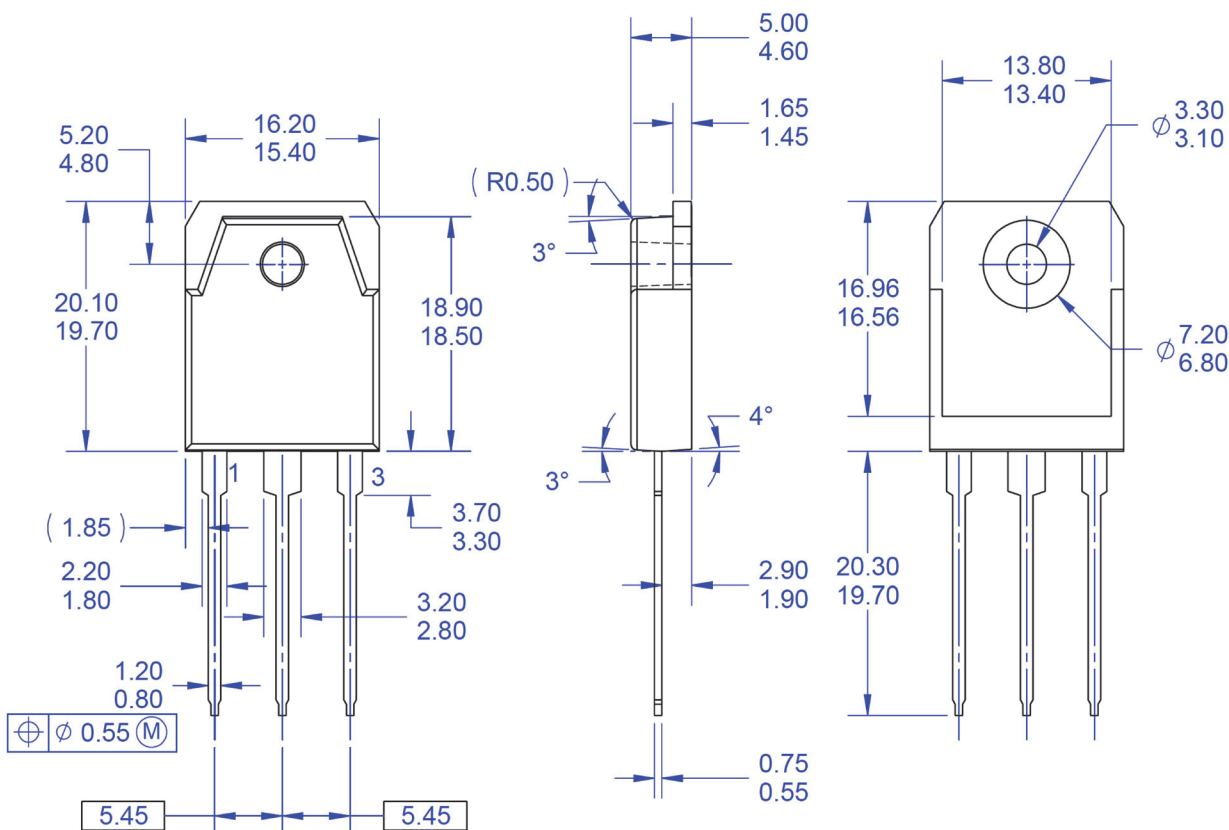


Figure 14. Unclamped Inductive Switching Test Circuit & Waveforms





## Mechanical Dimensions



NOTES: UNLESS OTHERWISE SPECIFIED

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- B) ALL DIMENSIONS ARE IN MILLIMETERS.
- C) DIMENSION AND TOLERANCING PER ASME14.5-2009.
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- E) DRAWING FILE NAME: TO3PN03AREV1.
- F) FAIRCHILD SEMICONDUCTOR.

**Figure 16. TO3PN, 3-Lead, Plastic, EIAJ SC-65**

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| BitSiC™                                                                           | Global Power ResourceSM                         | PowerXS™                                                                          | TinyBuck®                                                                           |
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