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# FQD7N30

## N-Channel QFET® MOSFET

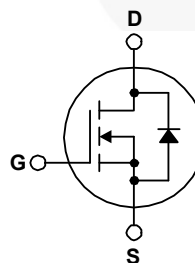
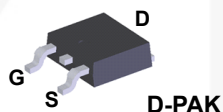
300 V, 5.5 A, 700 mΩ

### Description

This N-Channel enhancement mode power MOSFET is produced using Fairchild Semiconductor's proprietary planar stripe and DMOS technology. This advanced MOSFET technology has been especially tailored to reduce on-state resistance, and to provide superior switching performance and high avalanche energy strength. These devices are suitable for switched mode power supplies, active power factor correction (PFC), and electronic lamp ballasts.

### Features

- 5.5 A, 300 V,  $R_{DS(on)} = 700 \text{ m}\Omega$  (Max.) @  $V_{GS} = 10 \text{ V}$ ,  $I_D = 2.75 \text{ A}$
- Low Gate Charge (Typ. 13 nC)
- Low  $C_{rss}$  (Typ. 12 pF)
- 100% Avalanche Tested



### Absolute Maximum Ratings

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

| Symbol         | Parameter                                                             | FQD7N30TM   | Unit                |
|----------------|-----------------------------------------------------------------------|-------------|---------------------|
| $V_{DSS}$      | Drain-Source Voltage                                                  | 300         | V                   |
| $I_D$          | Drain Current - Continuous ( $T_C = 25^\circ\text{C}$ )               | 5.5         | A                   |
|                | - Continuous ( $T_C = 100^\circ\text{C}$ )                            | 3.48        | A                   |
| $I_{DM}$       | Drain Current - Pulsed (Note 1)                                       | 22          | A                   |
| $V_{GSS}$      | Gate-Source Voltage                                                   | $\pm 30$    | V                   |
| $E_{AS}$       | Single Pulsed Avalanche Energy (Note 2)                               | 380         | mJ                  |
| $I_{AR}$       | Avalanche Current (Note 1)                                            | 5.5         | A                   |
| $E_{AR}$       | Repetitive Avalanche Energy (Note 1)                                  | 5.0         | mJ                  |
| dv/dt          | Peak Diode Recovery dv/dt (Note 3)                                    | 4.5         | V/ns                |
| $P_D$          | Power Dissipation ( $T_A = 25^\circ\text{C}$ ) *                      | 2.5         | W                   |
|                | Power Dissipation ( $T_C = 25^\circ\text{C}$ )                        | 50          | W                   |
|                | - Derate above $25^\circ\text{C}$                                     | 0.4         | 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, 1/8" from Case for 5 Seconds. | 300         | $^\circ\text{C}$    |

### Thermal Characteristics

| Symbol          | Parameter                                                                             | FQD7N30TM | Unit               |
|-----------------|---------------------------------------------------------------------------------------|-----------|--------------------|
| $R_{\theta JC}$ | Thermal Resistance, Junction to Case, Max.                                            | 2.5       | $^\circ\text{C/W}$ |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient (Minimum Pad of 2-oz Copper), Max.            | 110       |                    |
|                 | Thermal Resistance, Junction to Ambient (*1 in <sup>2</sup> Pad of 2-oz Copper), Max. | 50        |                    |

## Package Marking and Ordering Information

| Part Number | Top Mark | Package | Packing Method | Reel Size | Tape Width | Quantity   |
|-------------|----------|---------|----------------|-----------|------------|------------|
| FQD7N30TM   | FQD7N30  | DPAK    | Tape and Reel  | 330 mm    | 16 mm      | 2500 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-Source Breakdown Voltage            | $V_{GS} = 0\text{ V}, I_D = 250\text{ }\mu\text{A}$               | 300 | --  | --   | V                   |
| $\Delta BV_{DSS} / \Delta T$ | Breakdown Voltage Temperature Coefficient | $I_D = 250\text{ }\mu\text{A}$ , Referenced to $25^\circ\text{C}$ | --  | 0.3 | --   | V/ $^\circ\text{C}$ |
| $I_{DSS}$                    | Zero Gate Voltage Drain Current           | $V_{DS} = 300\text{ V}, V_{GS} = 0\text{ V}$                      | --  | --  | 1    | $\mu\text{A}$       |
|                              |                                           | $V_{DS} = 240\text{ V}, T_C = 125^\circ\text{C}$                  | --  | --  | 10   | $\mu\text{A}$       |
| $I_{GSSF}$                   | Gate-Body Leakage Current, Forward        | $V_{GS} = 30\text{ V}, V_{DS} = 0\text{ V}$                       | --  | --  | 100  | nA                  |
| $I_{GSSR}$                   | Gate-Body Leakage Current, Reverse        | $V_{GS} = -30\text{ V}, V_{DS} = 0\text{ V}$                      | --  | --  | -100 | nA                  |

### On Characteristics

|              |                                   |                                                 |     |      |     |          |
|--------------|-----------------------------------|-------------------------------------------------|-----|------|-----|----------|
| $V_{GS(th)}$ | Gate Threshold Voltage            | $V_{DS} = V_{GS}, I_D = 250\text{ }\mu\text{A}$ | 3.0 | --   | 5.0 | V        |
| $R_{DS(on)}$ | Static Drain-Source On-Resistance | $V_{GS} = 10\text{ V}, I_D = 2.75\text{ A}$     | --  | 0.53 | 0.7 | $\Omega$ |
| $g_{FS}$     | Forward Transconductance          | $V_{DS} = 50\text{ V}, I_D = 2.75\text{ A}$     | --  | 4.0  | --  | S        |

### Dynamic Characteristics

|           |                              |                                                                      |    |     |     |    |
|-----------|------------------------------|----------------------------------------------------------------------|----|-----|-----|----|
| $C_{iss}$ | Input Capacitance            | $V_{DS} = 25\text{ V}, V_{GS} = 0\text{ V},$<br>$f = 1.0\text{ MHz}$ | -- | 470 | 610 | pF |
| $C_{oss}$ | Output Capacitance           |                                                                      | -- | 100 | 130 | pF |
| $C_{rss}$ | Reverse Transfer Capacitance |                                                                      | -- | 12  | 16  | pF |

### Switching Characteristics

|              |                     |                                                                          |    |     |     |    |
|--------------|---------------------|--------------------------------------------------------------------------|----|-----|-----|----|
| $t_{d(on)}$  | Turn-On Delay Time  | $V_{DD} = 150\text{ V}, I_D = 7.0\text{ A},$<br>$R_G = 25\text{ }\Omega$ | -- | 13  | 35  | ns |
| $t_r$        | Turn-On Rise Time   |                                                                          | -- | 75  | 160 | ns |
| $t_{d(off)}$ | Turn-Off Delay Time |                                                                          | -- | 25  | 60  | ns |
| $t_f$        | Turn-Off Fall Time  | (Note 4)                                                                 | -- | 35  | 80  | ns |
| $Q_g$        | Total Gate Charge   | $V_{DS} = 240\text{ V}, I_D = 7.0\text{ A},$<br>$V_{GS} = 10\text{ V}$   | -- | 13  | 17  | nC |
| $Q_{gs}$     | Gate-Source Charge  |                                                                          | -- | 3.4 | --  | nC |
| $Q_{gd}$     | Gate-Drain Charge   | (Note 4)                                                                 | -- | 6.4 | --  | nC |

### Drain-Source Diode Characteristics and Maximum Ratings

|                 |                                                       |                                                |    |      |     |    |
|-----------------|-------------------------------------------------------|------------------------------------------------|----|------|-----|----|
| I <sub>S</sub>  | Maximum Continuous Drain-Source Diode Forward Current |                                                | -- | --   | 5.5 | A  |
| I <sub>SM</sub> | Maximum Pulsed Drain-Source Diode Forward Current     |                                                | -- | --   | 22  | A  |
| V <sub>SD</sub> | Drain-Source Diode Forward Voltage                    | V <sub>GS</sub> = 0 V, I <sub>S</sub> = 5.5 A  | -- | --   | 1.5 | V  |
| t <sub>rr</sub> | Reverse Recovery Time                                 | V <sub>GS</sub> = 0 V, I <sub>S</sub> = 7.0 A, | -- | 150  | --  | ns |
| Q <sub>rr</sub> | Reverse Recovery Charge                               | dI <sub>F</sub> / dt = 100 A/μs                | -- | 0.74 | --  | μC |

#### Notes:

1. Repetitive rating : pulse-width limited by maximum junction temperature.
2.  $L = 21\text{ mH}, I_{AS} = 5.5\text{ A}, V_{DD} = 50\text{ V}, R_G = 25\text{ }\Omega$ , starting  $T_J = 25^\circ\text{C}$ .
3.  $I_{SD} \leq 7.0\text{ A}, di/dt \leq 200\text{ A}/\mu\text{s}, V_{DD} \leq BV_{DSS}$ , starting  $T_J = 25^\circ\text{C}$ .
4. Essentially independent of operating temperature.

## Typical Characteristics

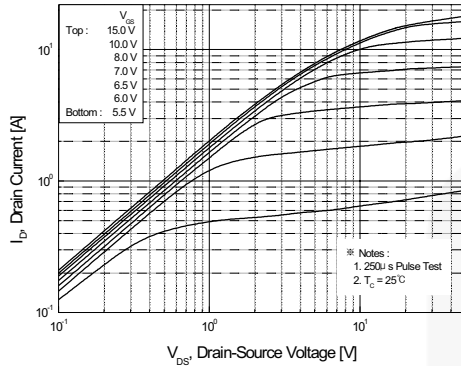


Figure 1. On-Region Characteristics

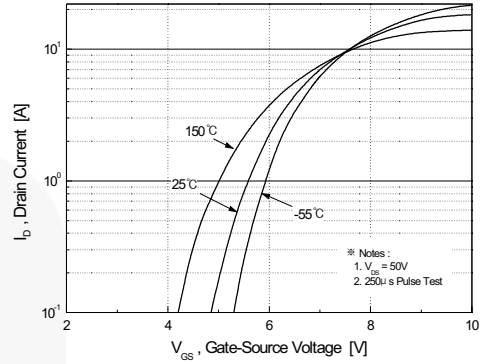


Figure 2. Transfer Characteristics

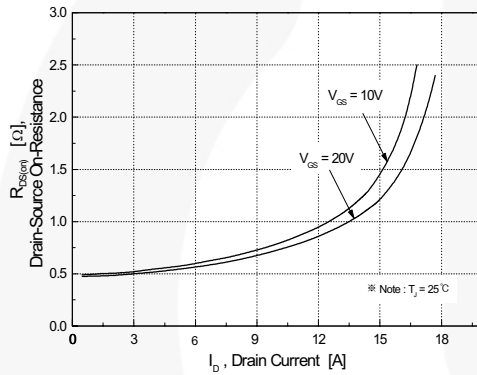


Figure 3. On-Resistance Variation vs. Drain Current and Gate Voltage

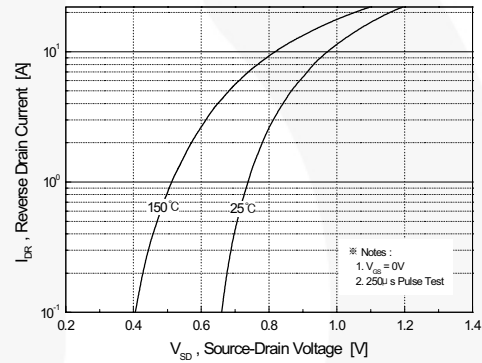


Figure 4. Body Diode Forward Voltage Variation vs. Source Current and Temperature

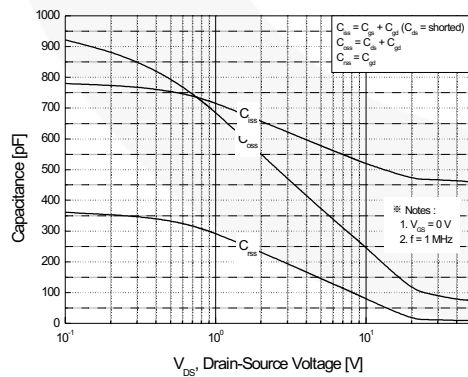


Figure 5. Capacitance Characteristics

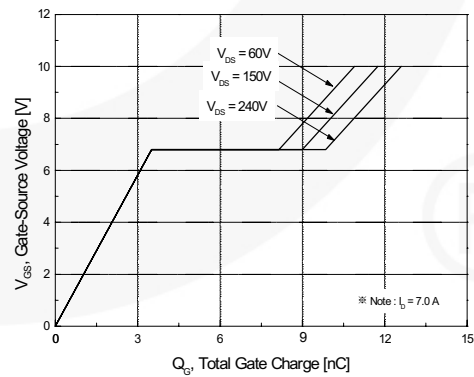
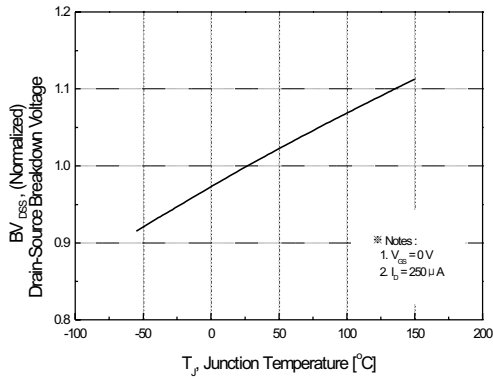
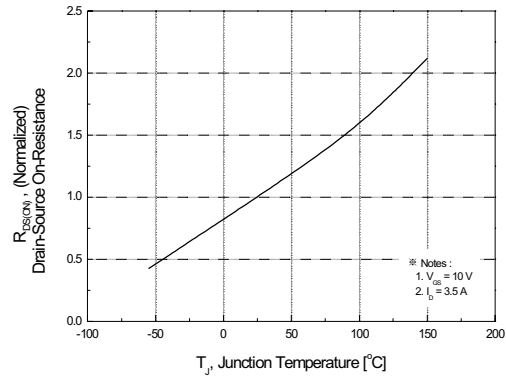


Figure 6. Gate Charge Characteristics

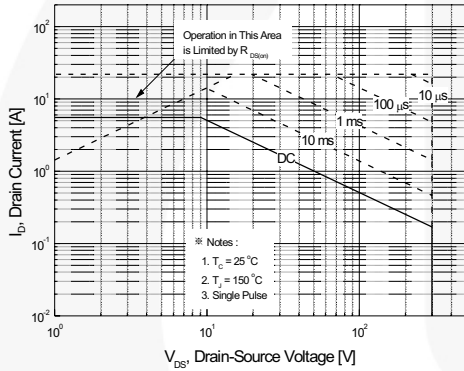
## Typical Characteristics (Continued)



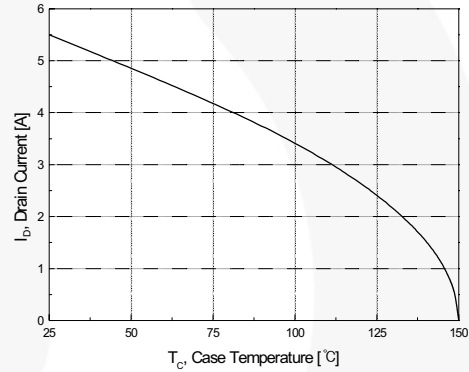
**Figure 7. Breakdown Voltage Variation vs. Temperature**



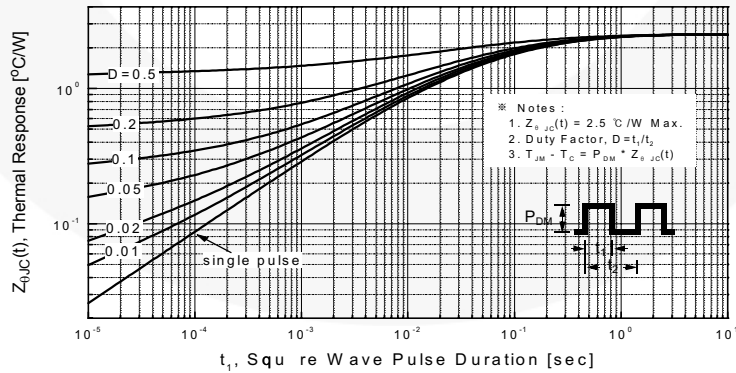
**Figure 8. On-Resistance Variation vs. Temperature**



**Figure 9. Maximum Safe Operating Area**



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



**Figure 11. Transient Thermal Response Curve**

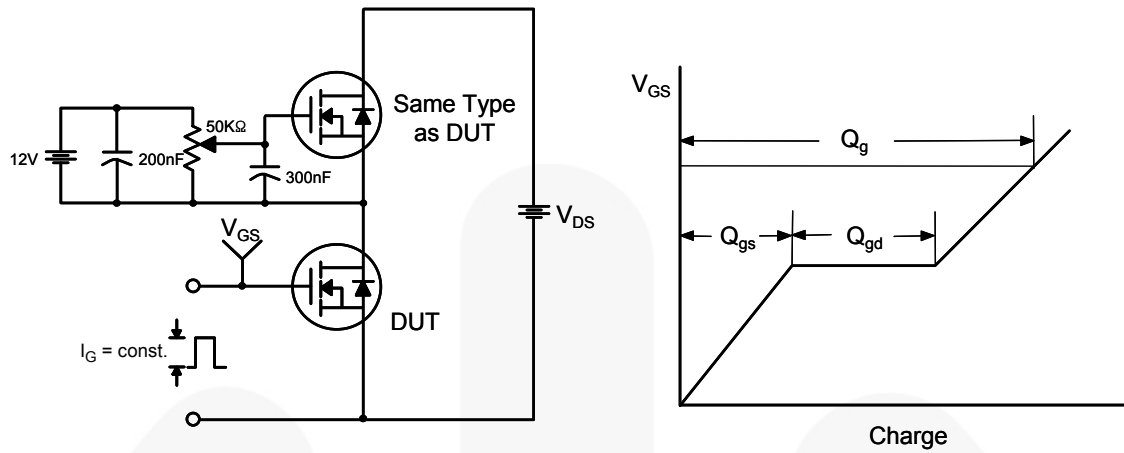


Figure 12. Gate Charge Test Circuit & Waveform

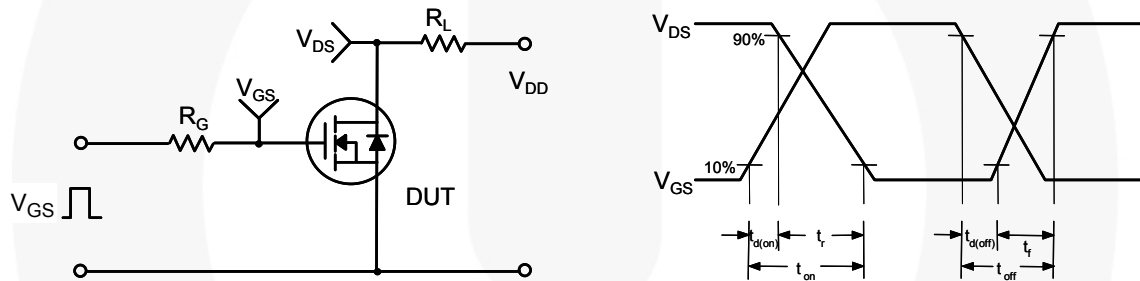


Figure 13. Resistive Switching Test Circuit & Waveforms

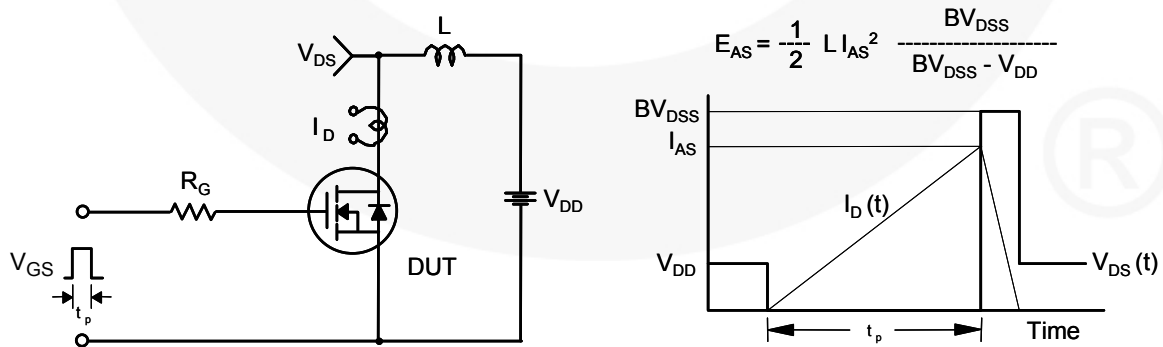


Figure 14. Unclamped Inductive Switching Test Circuit & Waveforms

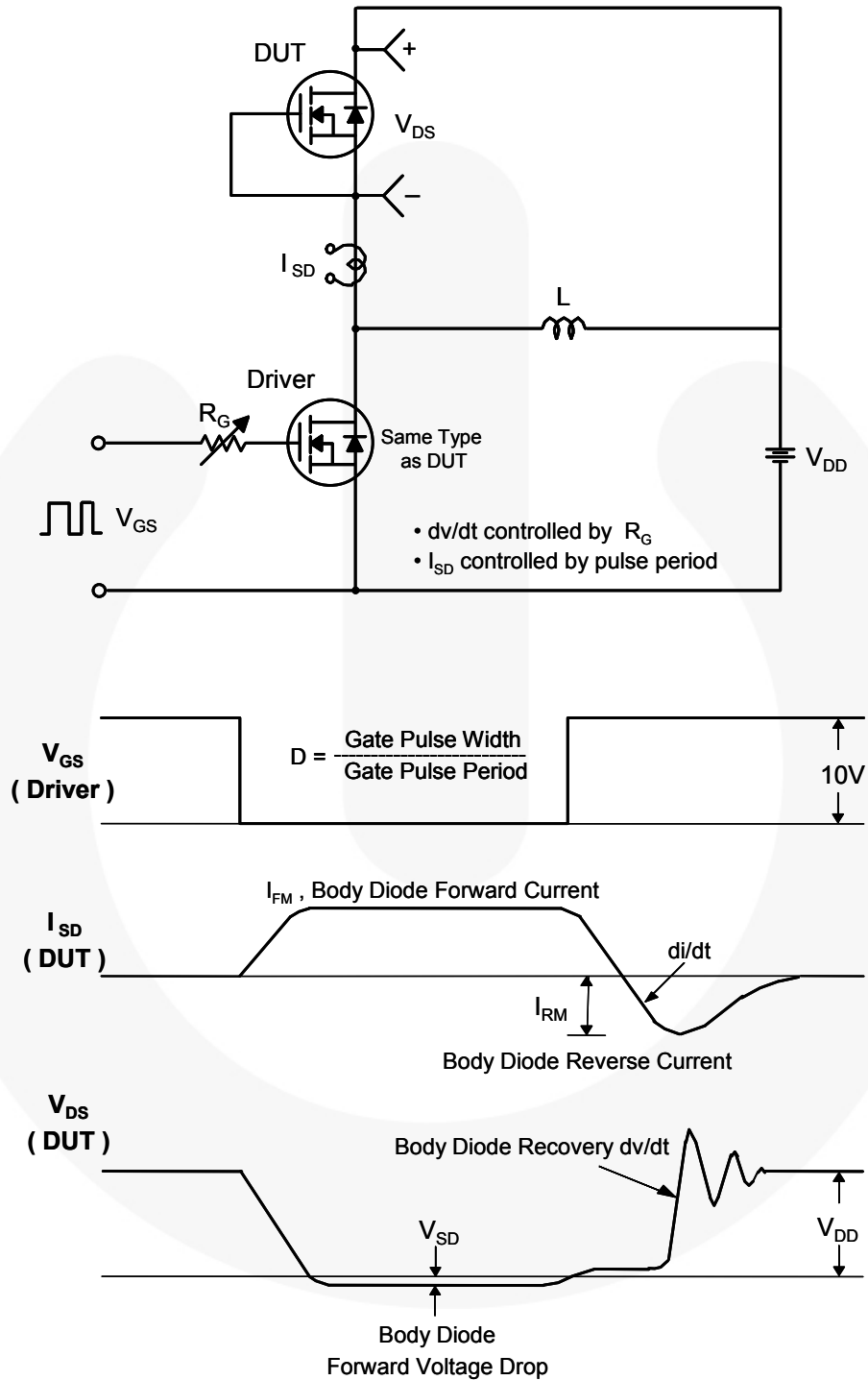
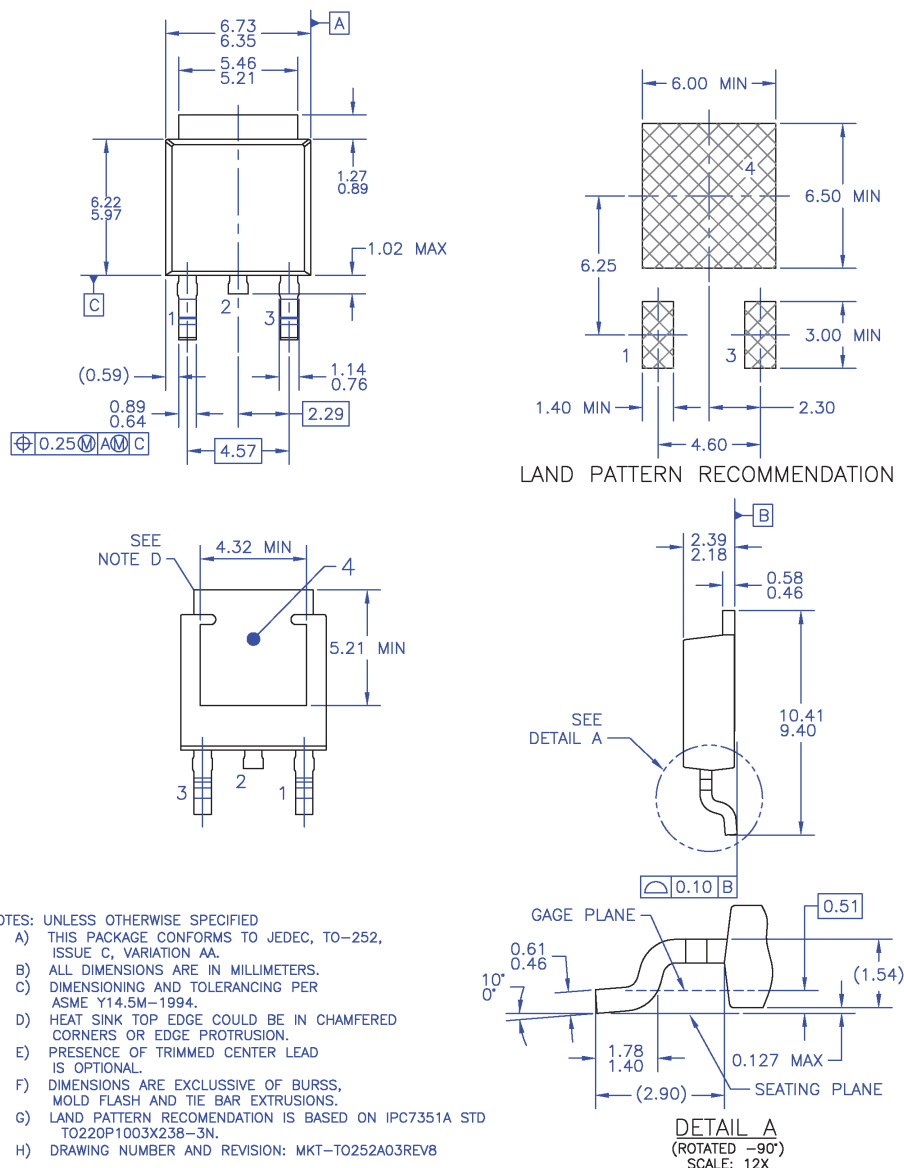


Figure 15. Peak Diode Recovery  $dv/dt$  Test Circuit & Waveforms

## Mechanical Dimensions



**Figure 16. TO252 (D-PAK), Molded, 3-Lead, Option AA&AB**

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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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