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# FDD7N60NZ / FDU7N60NZTU

## N-Channel UniFET™ II MOSFET

600 V, 5.5 A, 1.25 Ω

### Features

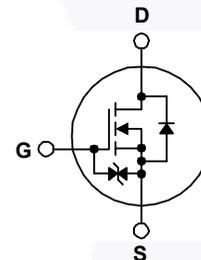
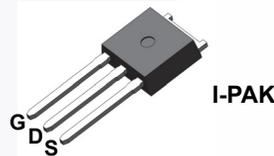
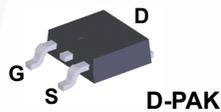
- $R_{DS(on)} = 1.05 \Omega$  (Typ.) @  $V_{GS} = 10 V, I_D = 2.75 A$
- Low Gate Charge (Typ. 13 nC)
- Low  $C_{rss}$  (Typ. 7 pF)
- 100% Avalanche Tested
- Improved dv/dt Capability
- ESD Improved Capability
- RoHS Compliant

### Applications

- Lighting
- Uninterruptible 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.



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

Symbol	Parameter		FDD7N60NZTM/ FDU7N60NZTU	Unit
$V_{DSS}$	Drain to Source Voltage		600	V
$V_{GSS}$	Gate to Source Voltage		±25	V
$I_D$	Drain Current	- Continuous ( $T_C = 25^\circ C$ )	5.5	A
		- Continuous ( $T_C = 100^\circ C$ )	3.3	
$I_{DM}$	Drain Current	- Pulsed (Note 1)	22	A
$E_{AS}$	Single Pulsed Avalanche Energy (Note 2)		347	mJ
$I_{AR}$	Avalanche Current (Note 1)		5.5	A
$E_{AR}$	Repetitive Avalanche Energy (Note 1)		12.5	mJ
dv/dt	Peak Diode Recovery dv/dt (Note 3)		10	V/ns
$P_D$	Power Dissipation	( $T_C = 25^\circ C$ )	90	W
		- Derate Above $25^\circ C$	0.7	
$T_J, T_{STG}$	Operating and Storage Temperature Range		-55 to +150	$^\circ C$
$T_L$	Maximum Lead Temperature for Soldering, 1/8" from Case for 5 Seconds		300	$^\circ C$

### Thermal Characteristics

Symbol	Parameter	FDD7N60NZTM/ FDU7N60NZTU	Unit
$R_{\theta JC}$	Thermal Resistance, Junction to Case, Max.	1.4	$^\circ C/W$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, Max.	90	

## Package Marking and Ordering Information

Part Number	Top Mark	Package	Packing Method	Reel Size	Tape Width	Quantity
FDD7N60NZTM	FDD7N60NZ	DPAK	Tape and Reel	330 mm	16 mm	2500 units
FDU7N60NZTU	FDU7N60NZ	IPAK	Tube	N/A	N/A	75 units

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

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
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### Off Characteristics

$BV_{DSS}$	Drain to Source Breakdown Voltage	$I_D = 250 \mu\text{A}$ , $V_{GS} = 0 \text{ V}$ , $T_J = 25^\circ\text{C}$	600	-	-	V
$\Delta BV_{DSS} / \Delta T_J$	Breakdown Voltage Temperature Coefficient	$I_D = 250 \mu\text{A}$ , Referenced to $25^\circ\text{C}$	-	0.6	-	$\text{V}/^\circ\text{C}$
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS} = 600 \text{ V}$ , $V_{GS} = 0 \text{ V}$	-	-	50	$\mu\text{A}$
		$V_{DS} = 480 \text{ V}$ , $T_C = 125^\circ\text{C}$	-	-	100	
$I_{GSS}$	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	$V_{GS} = 10 \text{ V}$ , $I_D = 2.75 \text{ A}$	-	1.05	1.25	$\Omega$
$g_{FS}$	Forward Transconductance	$V_{DS} = 20 \text{ V}$ , $I_D = 2.75 \text{ A}$	-	7.3	-	S

### Dynamic Characteristics

$C_{iss}$	Input Capacitance	$V_{DS} = 25 \text{ V}$ , $V_{GS} = 0 \text{ V}$ , $f = 1 \text{ MHz}$	-	550	730	pF
$C_{oss}$	Output Capacitance		-	70	90	pF
$C_{riss}$	Reverse Transfer Capacitance		-	7	10	pF
$Q_{g(tot)}$	Total Gate Charge at 10V	$V_{DS} = 400 \text{ V}$ , $I_D = 5.5 \text{ A}$ , $V_{GS} = 10 \text{ V}$	-	13	17	nC
$Q_{gs}$	Gate to Source Gate Charge		-	3	-	nC
$Q_{gd}$	Gate to Drain "Miller" Charge		(Note 4)	-	5.6	-

### Switching Characteristics

$t_{d(on)}$	Turn-On Delay Time	$V_{DD} = 250 \text{ V}$ , $I_D = 5.5 \text{ A}$ , $V_{GS} = 10 \text{ V}$ , $R_G = 25 \Omega$	-	17.5	45	ns
$t_r$	Turn-On Rise Time		-	30	70	ns
$t_{d(off)}$	Turn-Off Delay Time		-	40	90	ns
$t_f$	Turn-Off Fall Time		(Note 4)	-	25	60

### Drain-Source Diode Characteristics

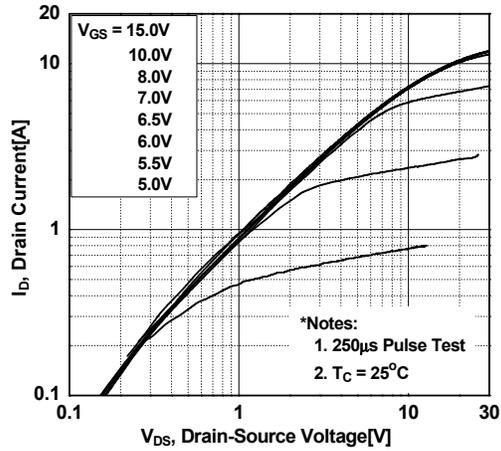
$I_S$	Maximum Continuous Drain to Source Diode Forward Current	-	-	5.5	A	
$I_{SM}$	Maximum Pulsed Drain to Source Diode Forward Current	-	-	22	A	
$V_{SD}$	Drain to Source Diode Forward Voltage	$V_{GS} = 0 \text{ V}$ , $I_{SD} = 5.5 \text{ A}$	-	-	1.4	V
$t_{rr}$	Reverse Recovery Time	$V_{GS} = 0 \text{ V}$ , $I_{SD} = 5.5 \text{ A}$ ,	-	250	-	ns
$Q_{rr}$	Reverse Recovery Charge	$di_F/dt = 100 \text{ A}/\mu\text{s}$	-	1.4	-	$\mu\text{C}$

#### Notes:

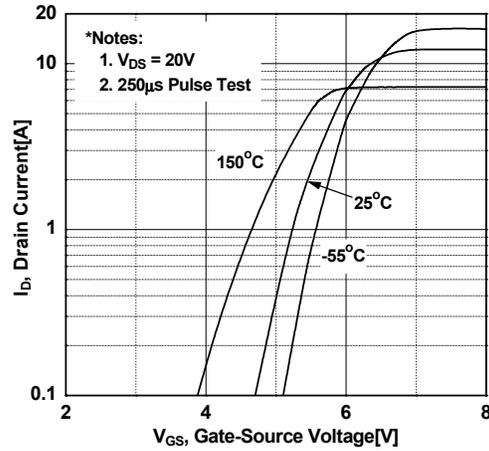
1. Repetitive rating: pulse-width limited by maximum junction temperature.
2.  $L = 23 \text{ mH}$ ,  $I_{AS} = 5.5 \text{ A}$ ,  $V_{DD} = 50 \text{ V}$ ,  $R_G = 25 \Omega$ , starting  $T_J = 25^\circ\text{C}$ .
3.  $I_{SD} \leq 5.5 \text{ A}$ ,  $di/dt \leq 200 \text{ A}/\mu\text{s}$ ,  $V_{DD} \leq BV_{DSS}$ , starting  $T_J = 25^\circ\text{C}$ .
4. Essentially independent of operating temperature typical characteristics.

## Typical Performance Characteristics

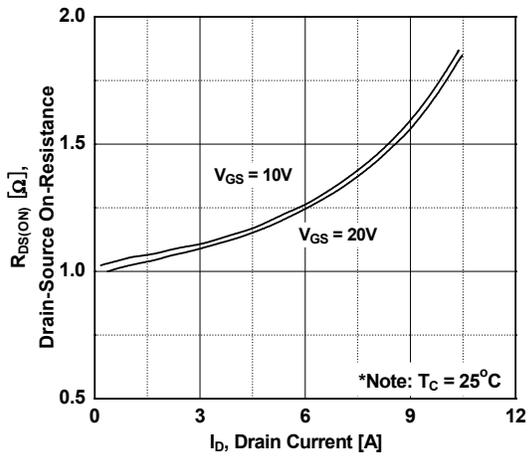
**Figure 1. On-Region Characteristics**



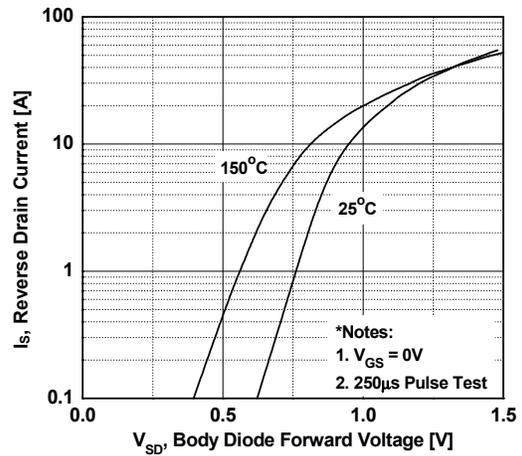
**Figure 2. Transfer Characteristics**



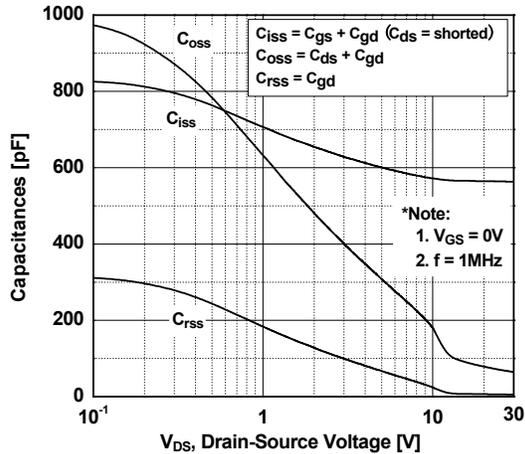
**Figure 3. On-Resistance Variation vs. Drain Current and Gate Voltage**



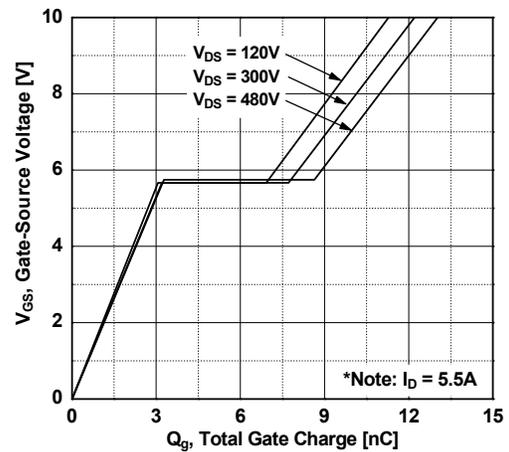
**Figure 4. Body Diode Forward Voltage Variation vs. Source Current and Temperature**



**Figure 5. Capacitance Characteristics**

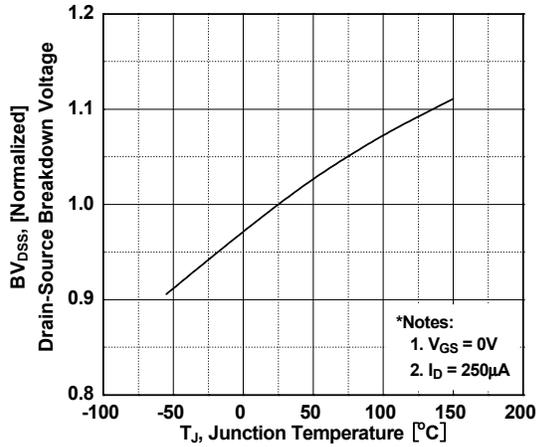


**Figure 6. Gate Charge Characteristics**

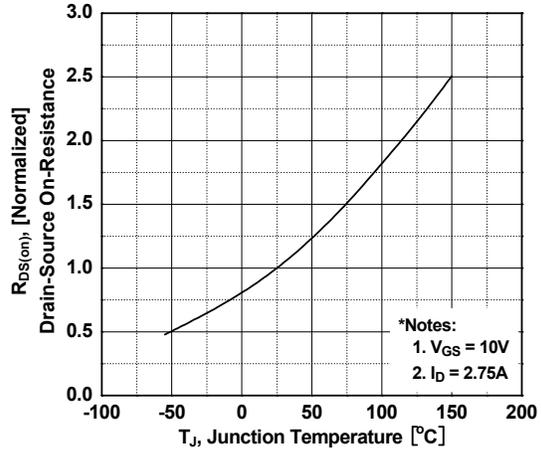


**Typical Performance Characteristics** (Continued)

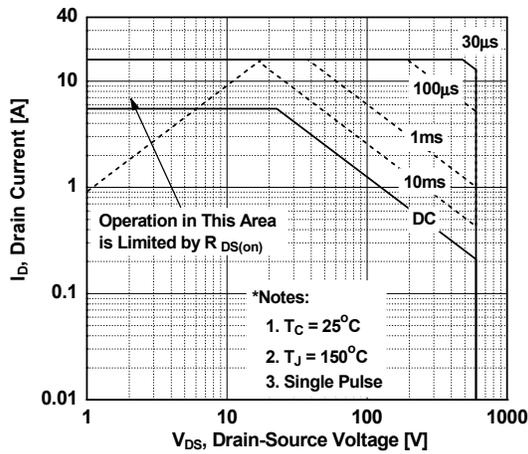
**Figure 7. Breakdown Voltage Variation vs. Temperature**



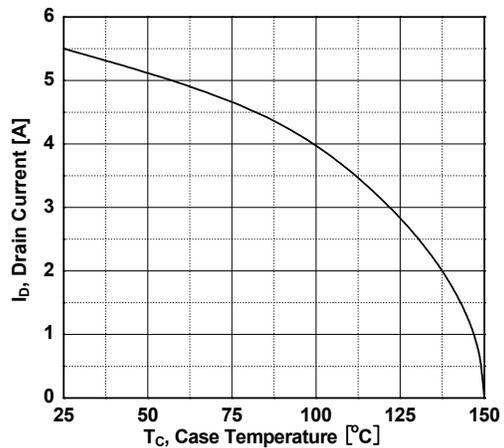
**Figure 8. On-Resistance Variation vs. Temperature**



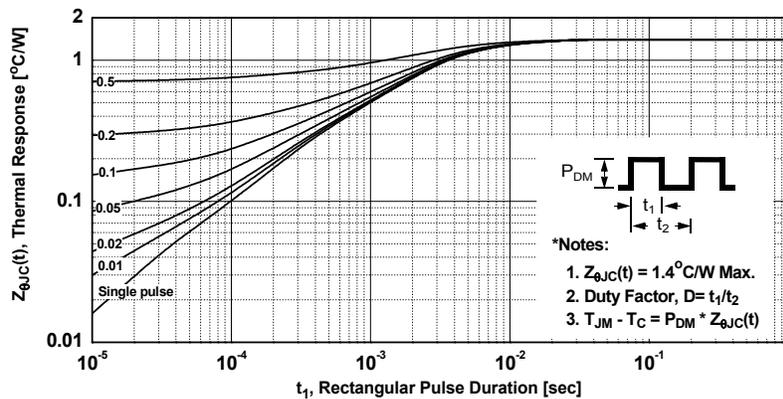
**Figure 9. Maximum Safe Operating Area**



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



**Figure 11. Transient Thermal Response Curve**



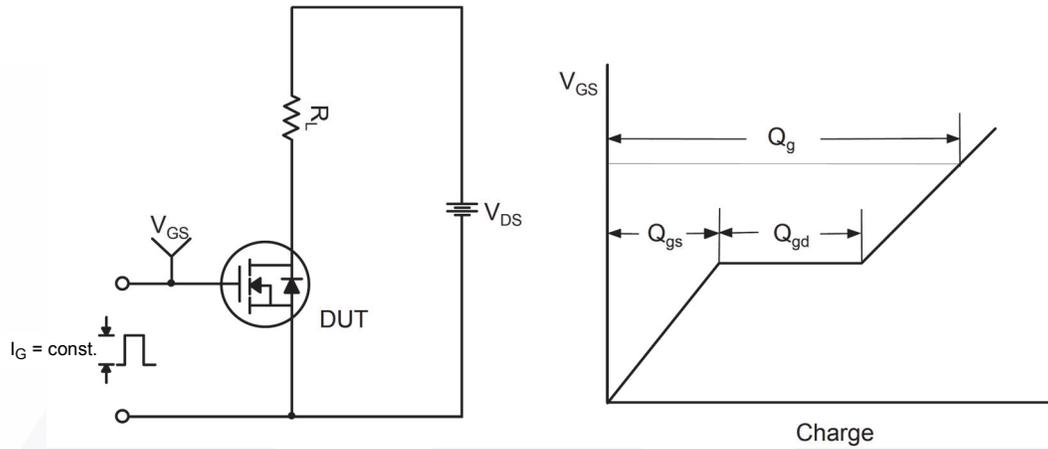


Figure 12. Gate Charge Test Circuit & Waveform

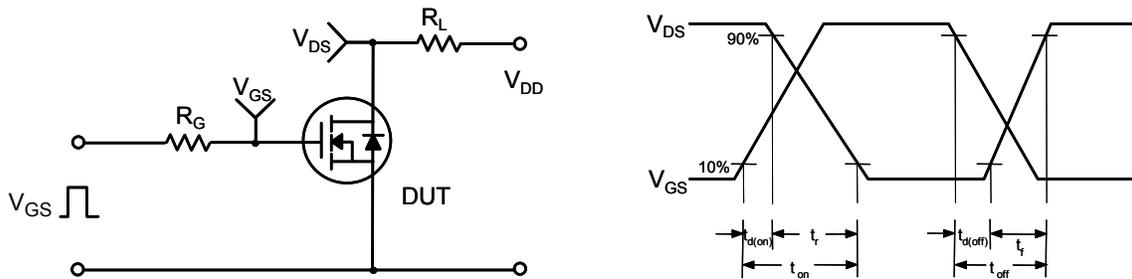


Figure 13. Resistive Switching Test Circuit & Waveforms

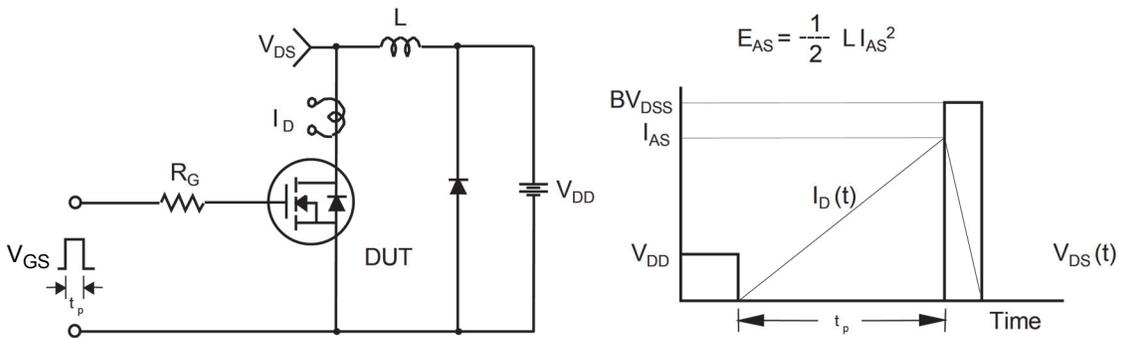


Figure 14. Unclamped Inductive Switching Test Circuit & Waveforms

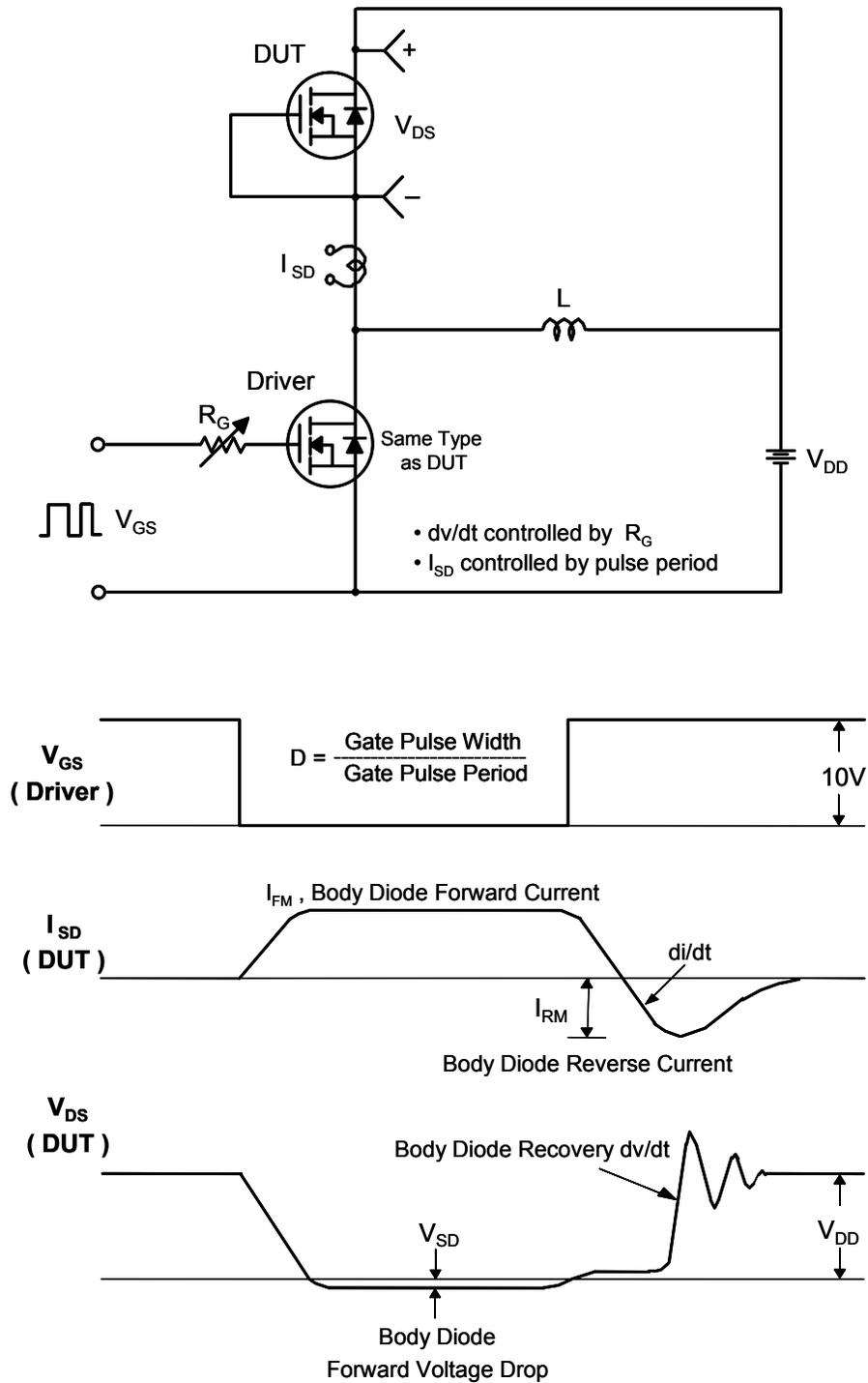
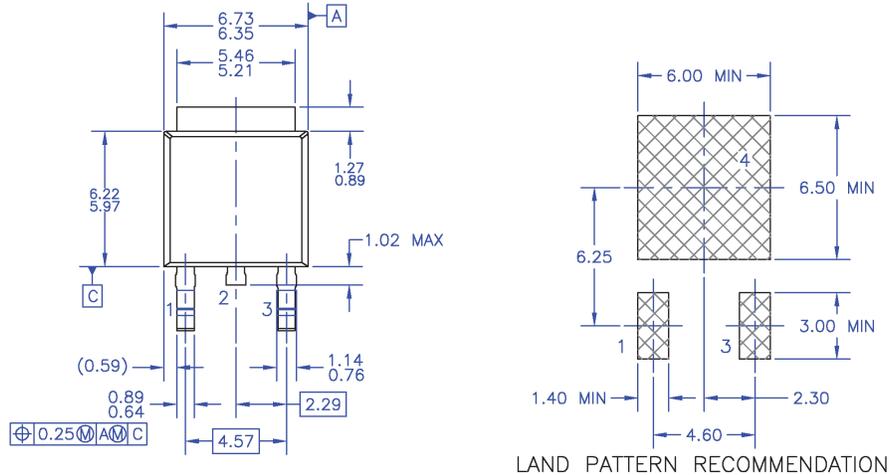
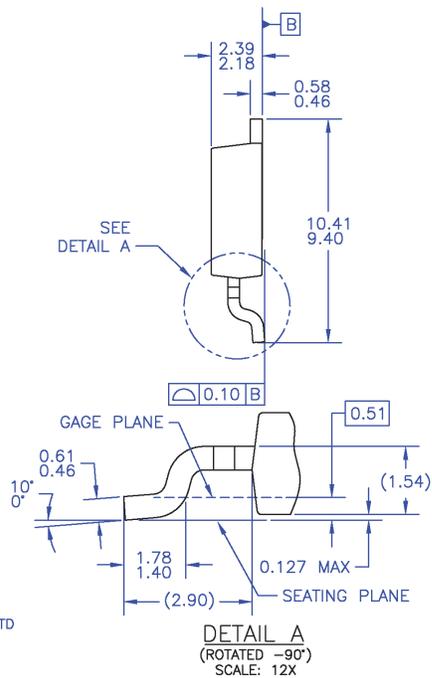


Figure 15. Peak Diode Recovery  $dv/dt$  Test Circuit & Waveforms

## Mechanical Dimensions



- NOTES: UNLESS OTHERWISE SPECIFIED
- A) THIS PACKAGE CONFORMS TO JEDEC, TO-252, ISSUE C, VARIATION AA.
  - B) ALL DIMENSIONS ARE IN MILLIMETERS.
  - C) DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
  - D) HEAT SINK TOP EDGE COULD BE IN CHAMFERED CORNERS OR EDGE PROTRUSION.
  - E) PRESENCE OF TRIMMED CENTER LEAD IS OPTIONAL.
  - F) DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH AND TIE BAR EXTRUSIONS.
  - G) LAND PATTERN RECOMMENDATION IS BASED ON IPC7351A STD TO220P1003X238-3N.
  - H) DRAWING NUMBER AND REVISION: MKT-T0252A03REV8



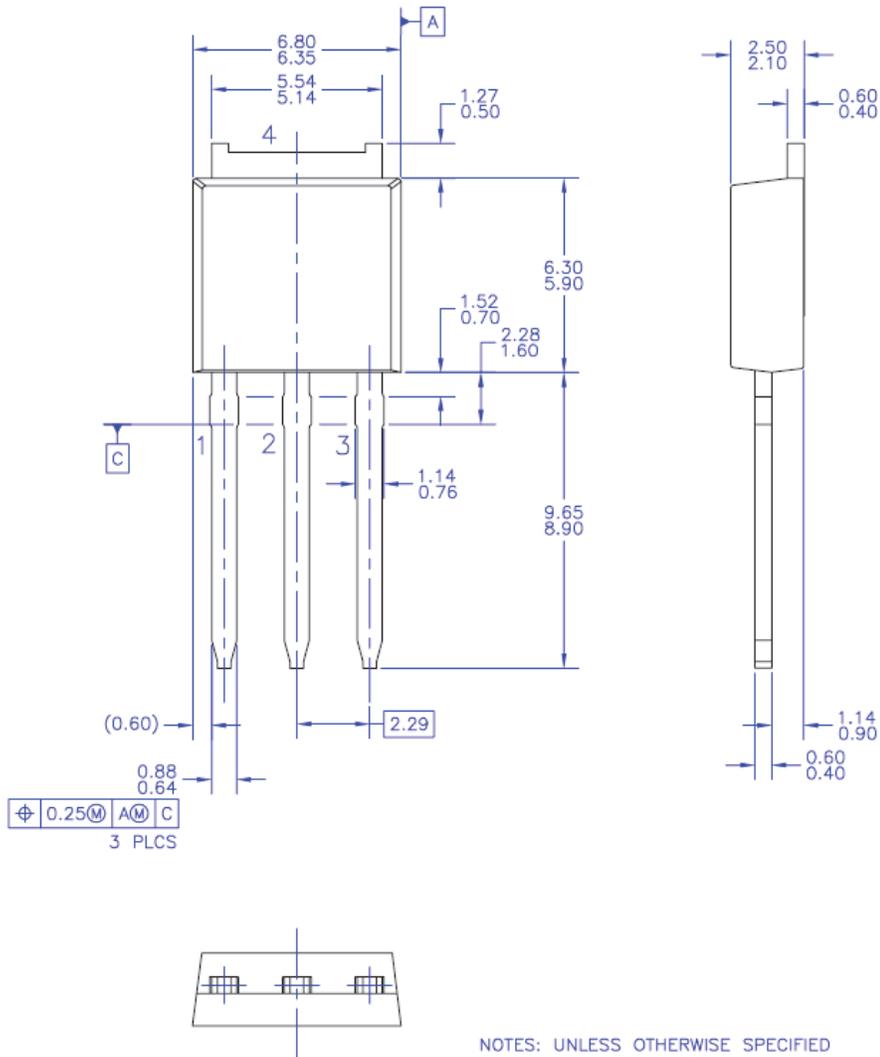
**Figure 16. TO252 (D-PAK), Molded, 3-Lead, Option AA&AB**

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## Mechanical Dimensions



**Figure 17. TO-251 (I-PAK), Molded, 3-Lead, Option AA**

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| Build it Now™            | GreenBridge™                                    | QFET®                                 | TinyBuck®        |
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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- 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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