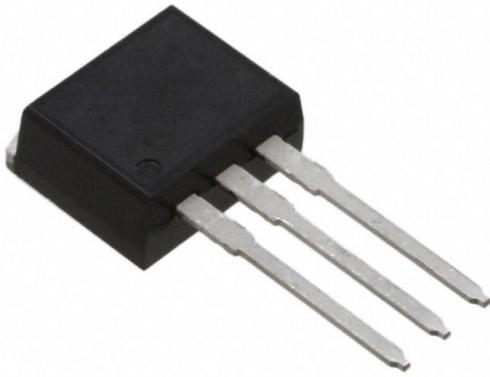


# FDI045N10A Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	FDI045N10A-DG
Manufacturer	<a href="#">onsemi</a>
Manufacturer Product Number	FDI045N10A
Description	MOSFET N-CH 100V 120A I2PAK
Detailed Description	N-Channel 100 V 120A (Tc) 263W (Tc) Through Hole TO-262 (I2PAK)



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

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## Purchase and inquiry

Manufacturer Product Number:

FDI045N10A

Series:

PowerTrench®

FET Type:

N-Channel

Drain to Source Voltage (Vdss):

100 V

Drive Voltage (Max Rds On, Min Rds On):

10V

Vgs(th) (Max) @ Id:

4V @ 250µA

Vgs (Max):

±20V

FET Feature:

-

Operating Temperature:

-55°C ~ 175°C (Tj)

Supplier Device Package:

TO-262 (I2PAK)

Base Product Number:

FDI045

Manufacturer:

onsemi

Product Status:

Obsolete

Technology:

MOSFET (Metal Oxide)

Current - Continuous Drain (Id) @ 25°C:

120A (Tc)

Rds On (Max) @ Id, Vgs:

4.5mOhm @ 100A, 10V

Gate Charge (Qg) (Max) @ Vgs:

74 nC @ 10 V

Input Capacitance (Ciss) (Max) @ Vds:

5270 pF @ 50 V

Power Dissipation (Max):

263W (Tc)

Mounting Type:

Through Hole

Package / Case:

TO-262-3 Long Leads, I2PAK, TO-262AA

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

REACH Status:

REACH Unaffected

HTSUS:

8541.29.0095



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November 2013

# FDP045N10A / FDI045N10A

## N-Channel PowerTrench<sup>®</sup> MOSFET

100 V, 164 A, 4.5 mΩ

### Features

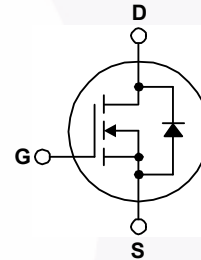
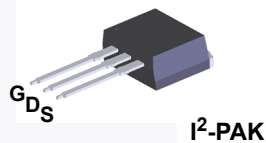
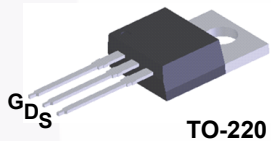
- $R_{DS(on)} = 3.8 \text{ m}\Omega$  (Typ.) @  $V_{GS} = 10 \text{ V}$ ,  $I_D = 100 \text{ A}$
- Fast Switching Speed
- Low Gate Charge,  $Q_G = 54 \text{ nC}$  (Typ.)
- High Performance Trench Technology for Extremely Low  $R_{DS(on)}$
- High Power and Current Handling Capability
- RoHS Compliant

### Description

This N-Channel MOSFET is produced using Fairchild Semiconductor's advance PowerTrench<sup>®</sup> process that has been tailored to minimize the on-state resistance while maintaining superior switching performance.

### Applications

- Synchronous Rectification for ATX / Server / Telecom PSU
- Battery Protection Circuit
- Motor drives and Uninterruptible Power Supplies
- Micro Solar Inverter



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

Symbol	Parameter	FDP045N10A_F102 FDI045N10A_F102	Unit
$V_{DSS}$	Drain to Source Voltage	100	V
$V_{GSS}$	Gate to Source Voltage	$\pm 20$	V
$I_D$	Drain Current	- Continuous ( $T_C = 25^\circ\text{C}$ , Silicon Limited)	164*
		- Continuous ( $T_C = 100^\circ\text{C}$ , Silicon Limited)	116
		- Continuous ( $T_C = 25^\circ\text{C}$ , Package Limited)	120
$I_{DM}$	Drain Current	- Pulsed (Note 1)	656
$E_{AS}$	Single Pulsed Avalanche Energy	(Note 2)	637
$dv/dt$	Peak Diode Recovery $dv/dt$	(Note 3)	6.0
$P_D$	Power Dissipation	( $T_C = 25^\circ\text{C}$ )	263
		- Derate Above $25^\circ\text{C}$	1.75
$T_J, T_{STG}$	Operating and Storage Temperature Range	-55 to +175	$^\circ\text{C}$
$T_L$	Maximum Lead Temperature for Soldering, 1/8" from Case for 5 Seconds	300	$^\circ\text{C}$

\*Calculated continuous current based on maximum allowable junction temperature. Package limitation current is 120A.

### Thermal Characteristics

Symbol	Parameter	FDP045N10A_F102 FDI045N10A_F102	Unit
$R_{\theta JC}$	Thermal Resistance, Junction to Case, Max.	0.57	$^\circ\text{C}/\text{W}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, Max.	62.5	

## Package Marking and Ordering Information

Part Number	Top Mark	Package	Packing Method	Reel Size	Tape Width	Quantity
FDP045N10A_F102	FDP045N10A	TO-220	Tube	N/A	N/A	50 units
FDI045N10A_F102	FDI045N10A	I <sup>2</sup> -PAK	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
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### Off Characteristics

$BV_{DSS}$	Drain to Source Breakdown Voltage	$I_D = 250 \mu\text{A}, V_{GS} = 0 \text{ V}$	100	-	-	V
$\Delta BV_{DSS} / \Delta T_J$	Breakdown Voltage Temperature Coefficient	$I_D = 250 \mu\text{A}$ , Referenced to $25^\circ\text{C}$	-	0.07	-	V/ $^\circ\text{C}$
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS} = 80 \text{ V}, V_{GS} = 0 \text{ V}$ $V_{DS} = 80 \text{ V}, T_C = 150^\circ\text{C}$	-	-	1 500	$\mu\text{A}$
$I_{GSS}$	Gate to Body Leakage Current	$V_{GS} = \pm 20 \text{ V}, V_{DS} = 0 \text{ V}$	-	-	$\pm 100$	nA

### On Characteristics

$V_{GS(th)}$	Gate Threshold Voltage	$V_{GS} = V_{DS}, I_D = 250 \mu\text{A}$	2.0	-	4.0	V
$R_{DS(on)}$	Static Drain to Source On Resistance	$V_{GS} = 10 \text{ V}, I_D = 100 \text{ A}$	-	3.8	4.5	m $\Omega$
$g_{FS}$	Forward Transconductance	$V_{DS} = 10 \text{ V}, I_D = 100 \text{ A}$	-	132	-	S

### Dynamic Characteristics

$C_{iss}$	Input Capacitance	$V_{DS} = 50 \text{ V}, V_{GS} = 0 \text{ V}$ $f = 1 \text{ MHz}$	-	3960	5270	pF
$C_{oss}$	Output Capacitance		-	925	1230	pF
$C_{rss}$	Reverse Transfer Capacitance		-	34	-	pF
$C_{oss(er)}$	Energy Related Output Capacitance	$V_{DS} = 50 \text{ V}, V_{GS} = 0 \text{ V}$	-	1520	-	pF
$Q_{g(tot)}$	Total Gate Charge at 10V	$V_{GS} = 10 \text{ V}, V_{DS} = 50 \text{ V},$ $I_D = 100 \text{ A}$	-	54	74	nC
$Q_{gs}$	Gate to Source Gate Charge		-	17	-	nC
$Q_{gs2}$	Gate Charge Threshold to Plateau		-	8	-	nC
$Q_{gd}$	Gate to Drain "Miller" Charge		(Note 4)	-	13	-
ESR	Equivalent Series Resistance (G-S)	$f = 1 \text{ MHz}$	-	1.9	-	$\Omega$

### Switching Characteristics

$t_{d(on)}$	Turn-On Delay Time	$V_{DD} = 50 \text{ V}, I_D = 100 \text{ A},$ $V_{GS} = 10 \text{ V}, R_G = 4.7 \Omega$	-	23	56	ns
$t_r$	Turn-On Rise Time		-	26	62	ns
$t_{d(off)}$	Turn-Off Delay Time		-	50	110	ns
$t_f$	Turn-Off Fall Time		(Note 4)	-	15	40

### Drain-Source Diode Characteristics

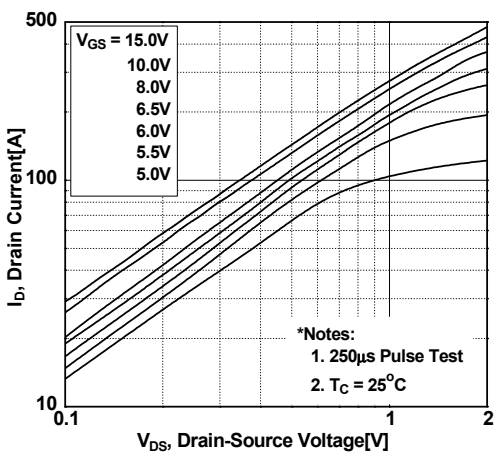
$I_S$	Maximum Continuous Drain to Source Diode Forward Current	-	-	164*	A	
$I_{SM}$	Maximum Pulsed Drain to Source Diode Forward Current	-	-	656	A	
$V_{SD}$	Drain to Source Diode Forward Voltage	$V_{GS} = 0 \text{ V}, I_{SD} = 100 \text{ A}$	-	-	1.3	V
$t_{rr}$	Reverse Recovery Time	$V_{GS} = 0 \text{ V}, V_{DD} = 50 \text{ V}, I_{SD} = 100 \text{ A},$ $di_F/dt = 100 \text{ A}/\mu\text{s}$	-	75	-	ns
$Q_{rr}$	Reverse Recovery Charge		-	120	-	nC

#### Notes:

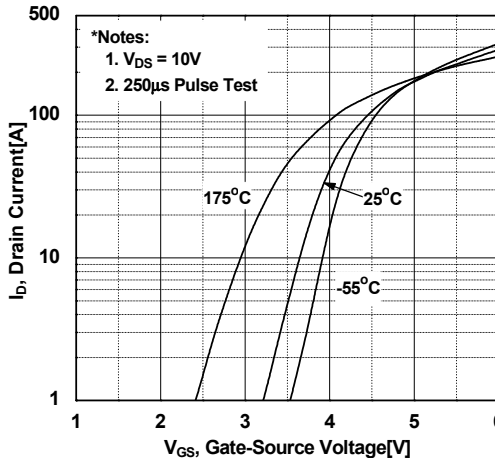
1. Repetitive rating: pulse-width limited by maximum junction temperature.
2.  $L = 3 \text{ mH}, I_{AS} = 20.6 \text{ A}, R_G = 25 \Omega$ , starting  $T_J = 25^\circ\text{C}$ .
3.  $I_{SD} \leq 100 \text{ A}, di/dt \leq 200 \text{ A}/\mu\text{s}, V_{DD} \leq BV_{DSS}$ , starting  $T_J = 25^\circ\text{C}$ .
4. Essentially independent of operating temperature typical characteristics.

### Typical Performance Characteristics

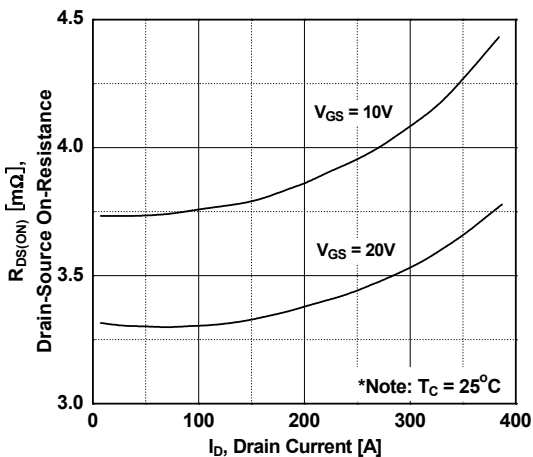
**Figure 1. On-Region Characteristics**



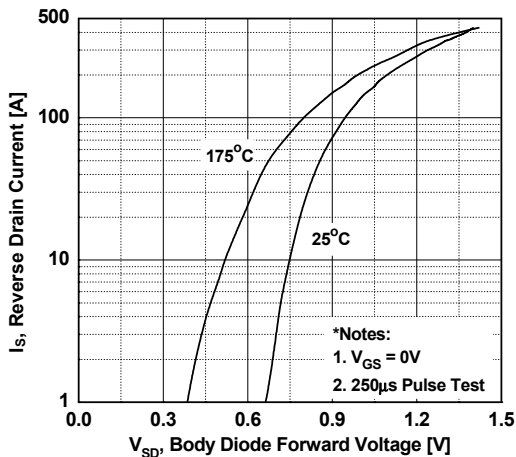
**Figure 2. Transfer Characteristics**



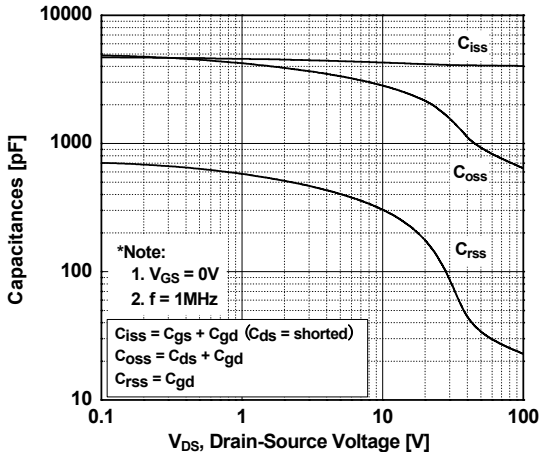
**Figure 3. On-Resistance Variation vs. Drain Current and Gate Voltage**



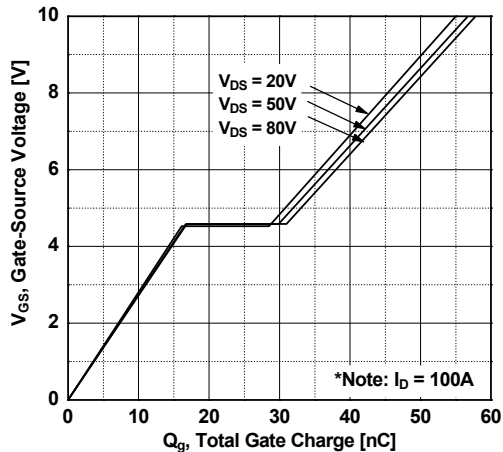
**Figure 4. Body Diode Forward Voltage Variation vs. Source Current and Temperature**



**Figure 5. Capacitance Characteristics**

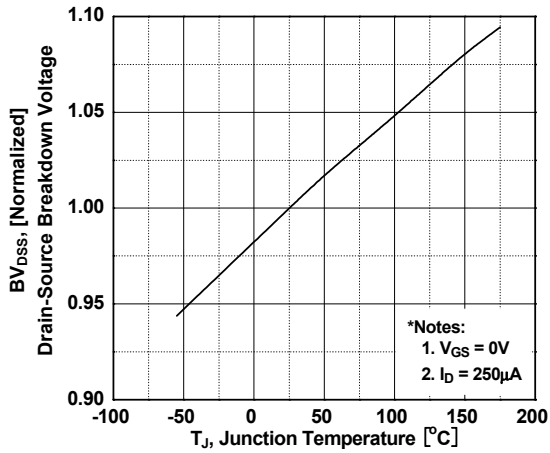


**Figure 6. Gate Charge Characteristics**

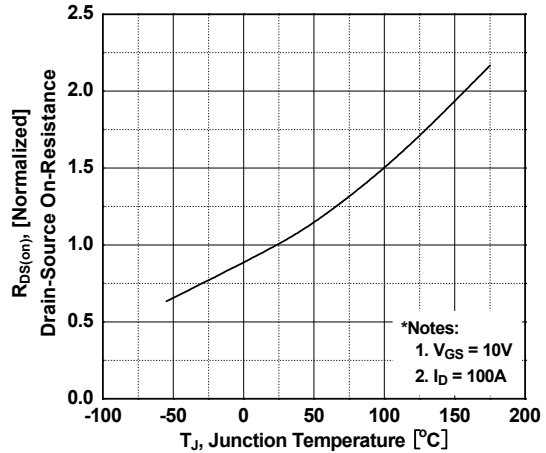


**Typical Performance Characteristics** (Continued)

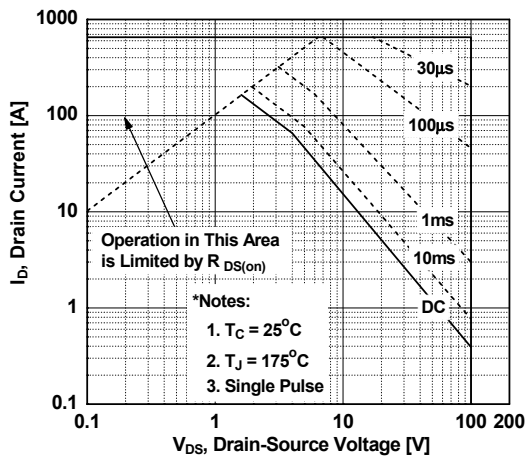
**Figure 7. Breakdown Voltage Variation vs. Temperature**



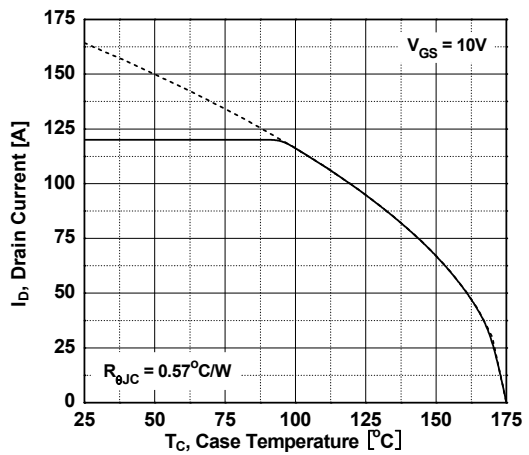
**Figure 8. On-Resistance Variation vs. Temperature**



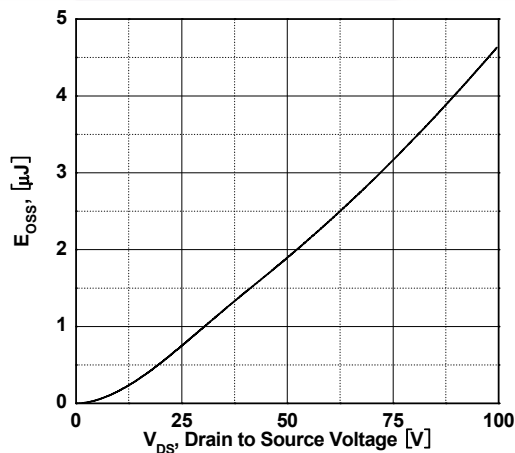
**Figure 9. Maximum Safe Operating Area**



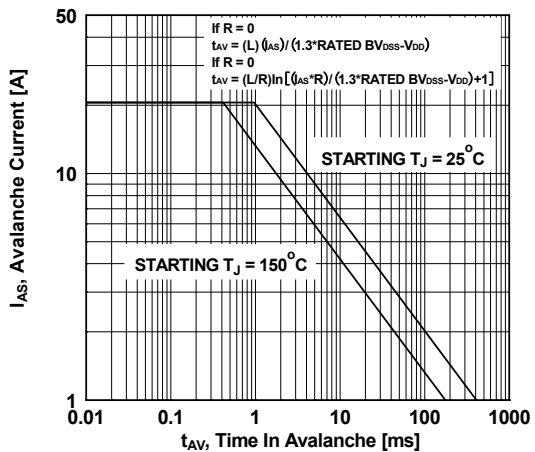
**Figure 10. Maximum Drain Current vs. Case Temperature**



**Figure 11. Eoss vs. Drain to Source Voltage**

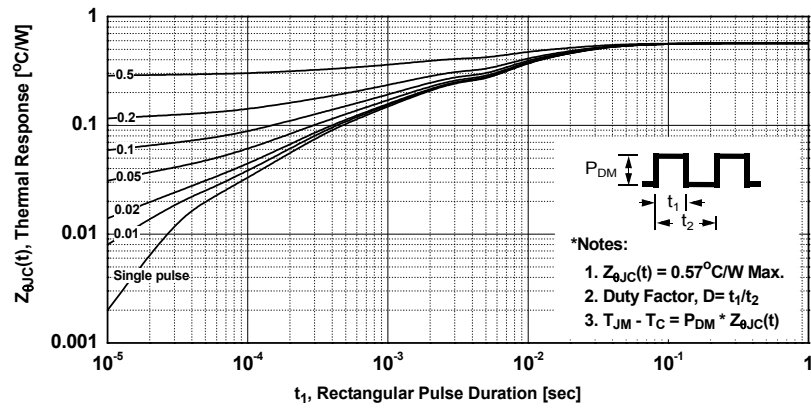


**Figure 12. Unclamped Inductive Switching Capability**



## Typical Performance Characteristics (Continued)

### Figure 13. Transient Thermal Response Curve





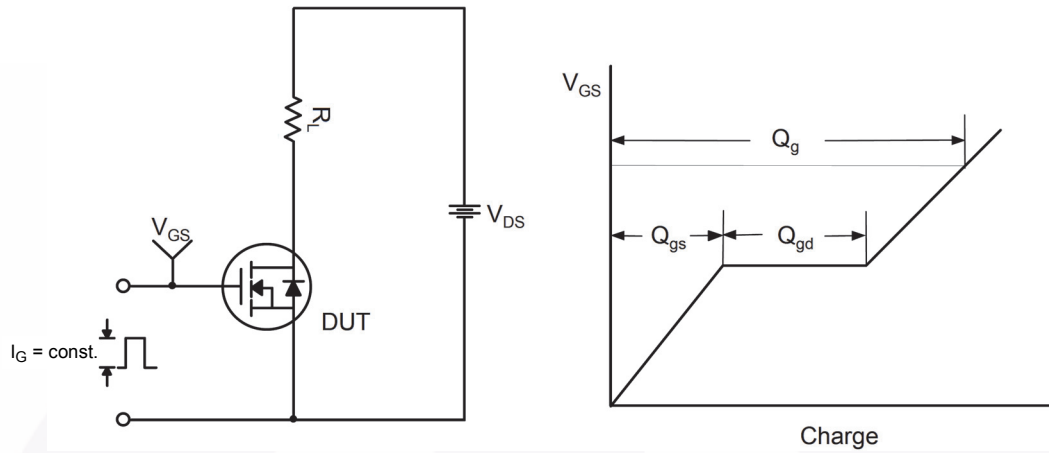


Figure 14. Gate Charge Test Circuit & Waveform

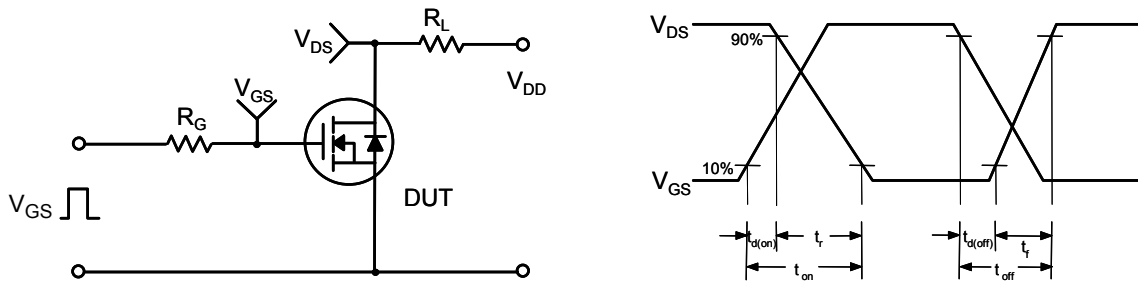


Figure 15. Resistive Switching Test Circuit & Waveforms

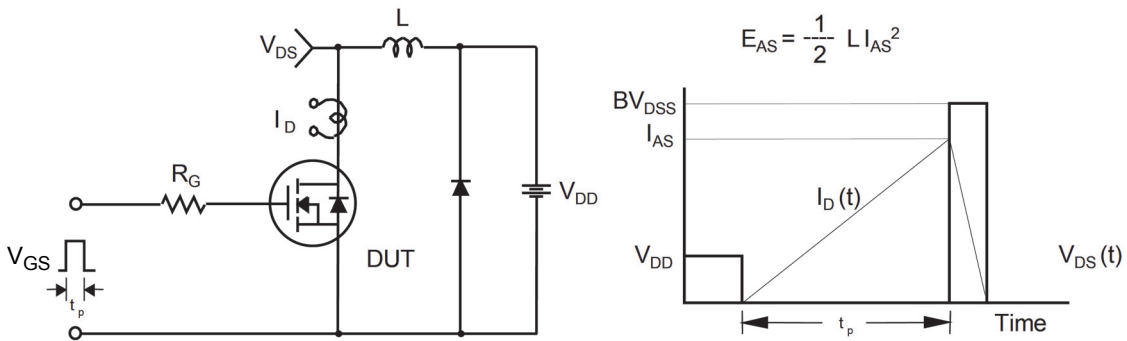


Figure 16. Unclamped Inductive Switching Test Circuit & Waveforms

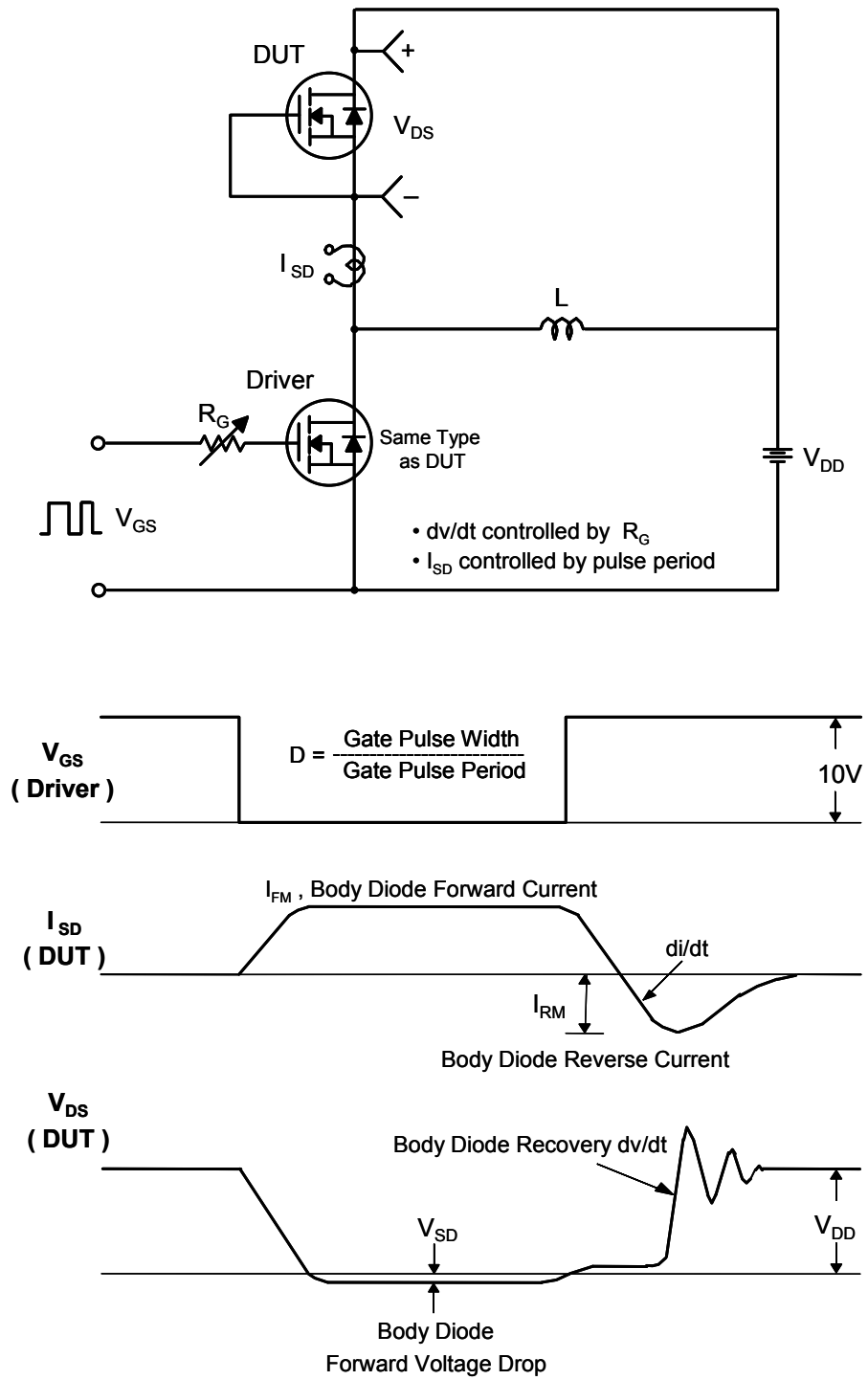


Figure 17. Peak Diode Recovery  $dv/dt$  Test Circuit & Waveforms

## Mechanical Dimensions

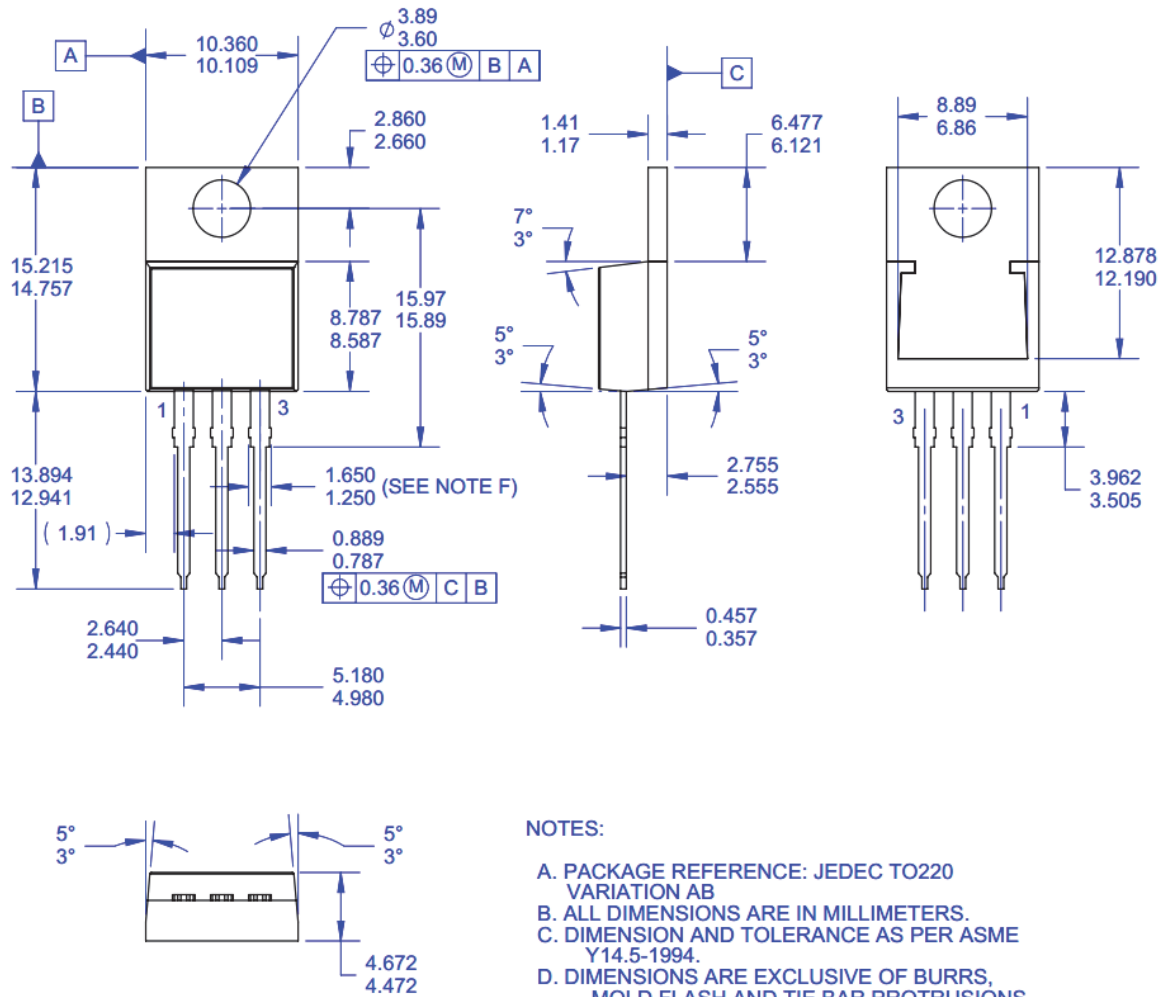


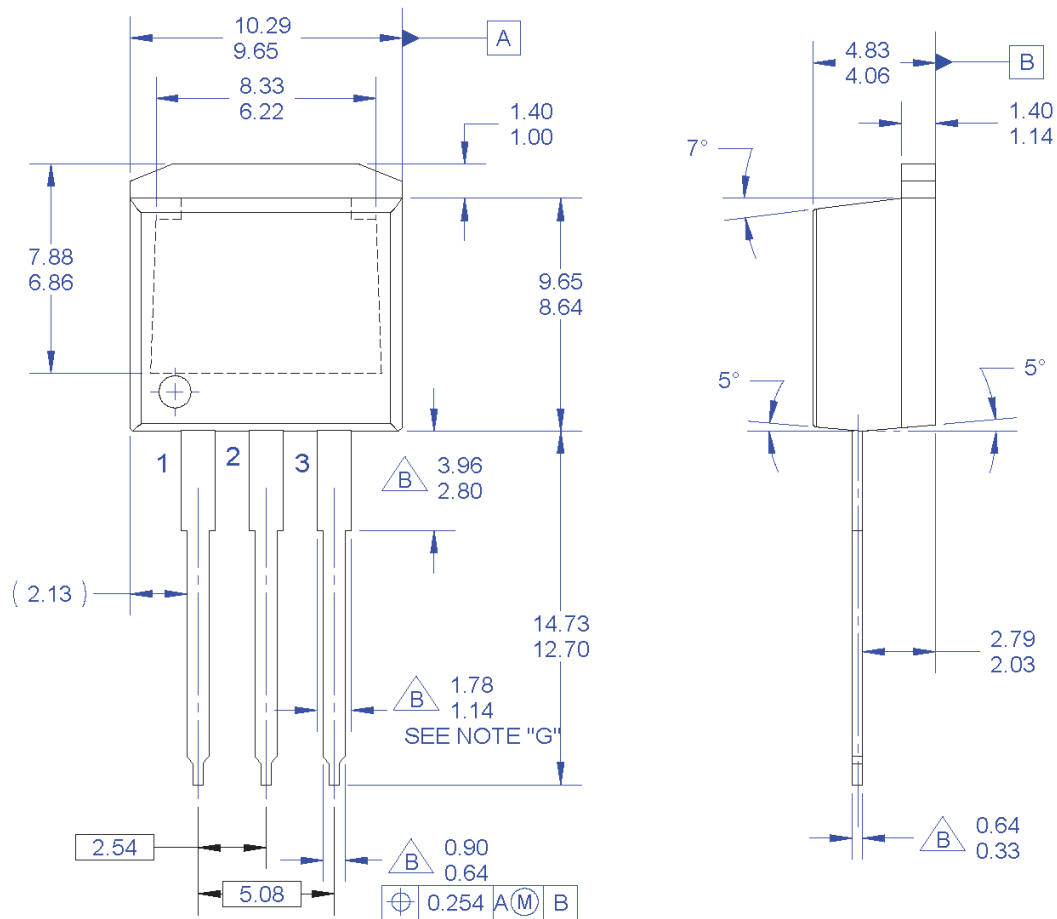
Figure 18. TO-220, Molded, 3-Lead, Jedec Variation AB (Delta)

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## Mechanical Dimensions



## NOTES:

- A. EXCEPT WHERE NOTED CONFORMS TO TO262 JEDEC VARIATION AA.
- B. DOES NOT COMPLY JEDEC STD. VALUE.
- C. ALL DIMENSIONS ARE IN MILLIMETERS.
- D. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH AND TIE BAR PROTRUSIONS.
- E. DIMENSION AND TOLERANCE AS PER ANSI Y14.5-1994.
- F. LOCATION OF PIN HOLE MAY VARY (LOWER LEFT CORNER, LOWER CENTER AND CENTER OF PACKAGE)
- G. MAXIMUM WIDTH FOR F102 DEVICE = 1.35 MAX.
- H. DRAWING FILE NAME: TO262A03REV5

Figure 19. TO262 (I<sup>2</sup>PAK), Molded, 3-Lead, Jedec Variation AA

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Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
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