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November 2013

FDMS015N04B N-Channel PowerTrench[®] MOSFET 40 V, 100 A, 1.5 m Ω

Features

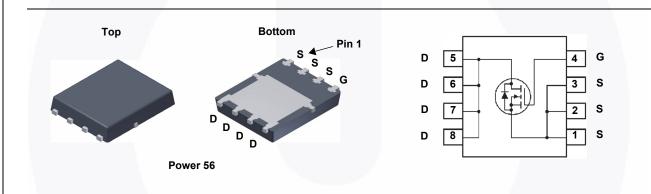
- $R_{DS(on)}$ = 1.13 m Ω (Typ.) @ V_{GS} = 10 V, I_D = 50 A
- Advanced Package and Silicon Combination for Low $\mathsf{R}_{\mathsf{DS}(\mathsf{on})}$ and High Efficiency
- Fast Switching Speed
- 100% UIL Tested
- RoHS Compliant

Description

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

Applications

- Synchronous Rectification for ATX / Server
- Battery Protection Circuit
- Motor Drives and Uninterruptible Power Supplies



MOSFET Maximum Ratings T_C = 25°C unless otherwise noted.

Symbol		FDMS015N04B	Unit		
V _{DSS}	Drain to Source Voltage			40	V
V _{GSS}	Gate to Source Voltage	oltage			V
ID	Drain Current	- Continuous ($T_C = 25^{\circ}C$)	- Continuous (T _C = 25 ^o C)		
	Drain Current	- Continuous (T _A = 25 ^o C)	(Note 1a)	31.3	A
DM	Drain Current	- Pulsed	(Note 2)	400	А
E _{AS}	Single Pulsed Avalanche Energy		(Note 3)	526	mJ
P _D	Dower Dissinction	(T _C = 25°C)	(T _C = 25 ^o C)		W
	Power Dissipation	(T _A = 25 ^o C)	(T _A = 25 ^o C) (Note 1a)		
T _J , T _{STG}	Operating and Storage Temperature Range			-55 to +150	°C

Thermal Characteristics

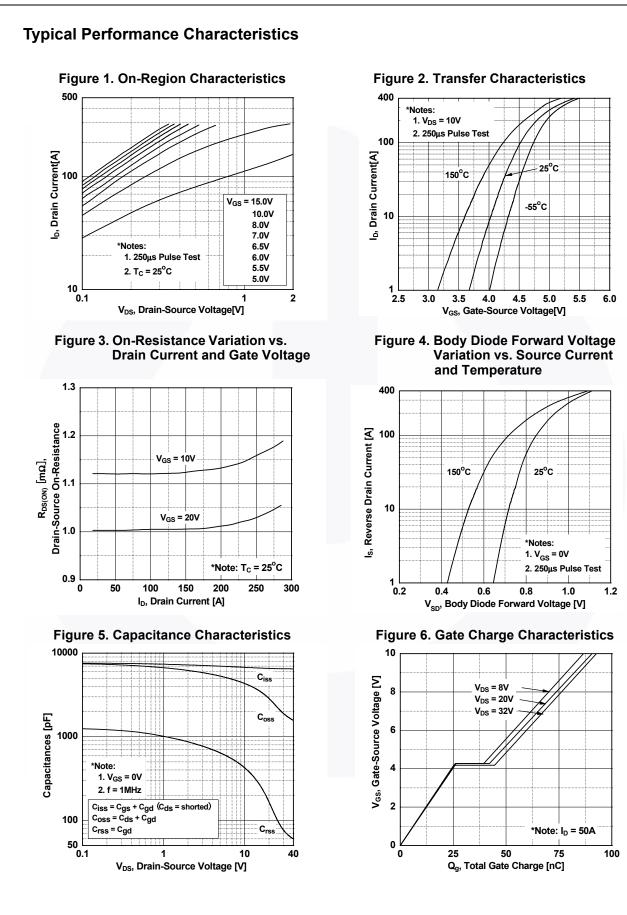
Symbol	Parameter	FDMS015N04B	Unit	
$R_{\theta JC}$	Thermal Resistance, Junction to Case, Max.	1.2	°C/W	
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient, Max. (Note 1a)	50	0/00	

04B FDMS015N04B Characteristics T _C = 2 Parameter eristics	Power 25 ⁰ C unless		13 "	12				
Parameter	25ºC unless				12 mm		Quantity 3000 units	
		otherwise n	oted.					
eristics		1	Test Conditions		Min.	Тур.	Max.	Unit
Drain to Source Breakdown Voltage		I _D = 250 μA, V _{GS} = 0 V			40	-	-	V
Breakdown Voltage Temperatu Coefficient	re	$I_D = 250 \ \mu$ A, Referenced to 25° C			-	37	-	mV/ºC
Zero Gate Voltage Drain Curre	nt	V _{DS} = 32 V, V _{GS} = 0 V			-	-	1	μA
Gate to Body Leakage Current		V_{GS} = ±20 V, V_{DS} = 0 V			-	-	±100	nA
eristics								
Gate Threshold Voltage		$V_{GS} = V_{DS}$, $I_{D} = 250 \mu A$			2.0	-	4.0	V
	stance	$V_{GS} = 10 \text{ V}, \text{ I}_{D} = 50 \text{ A}$			-	1.13	1.5	mΩ
Forward Transconductance		$V_{DS} = 5 V, I_D = 50 A$			-	171	-	S
aracteristics								
	-				-	6560	8725	pF
		V _{DS} = 20 V, V _{GS} = 0 V f = 1 MHz		-	-	2795	3720	pF
Reverse Transfer Capacitance				-	162	-	pF	
Energy Releted Output Capacit	tance	V _{DS} = 20 V	V, V _{GS} = 0 V		-	3896	-	pF
Total Gate Charge at 10V				-	91	118	nC	
Gate to Source Gate Charge		V _{DS} = 20 V, I _D = 50 A			-	26	-	nC
Gate Charge Threshold to Plat	eau	$V_{GS} = 0 V \text{ to } 10 V$		-	9	-	nC	
Gate to Drain "Miller" Charge				(Note 4)	-	16	-	nC
Equivalent Series Resistance		f = 1 MHz			-	1.4	-	Ω
haracteristics								
Turn-On Delay Time					-	34	78	ns
Turn-On Rise Time		V_{DD} = 20 V, I _D = 50 A V _{GS} = 10 V, R _G = 4.7 Ω		-	24	58	ns	
Turn-Off Delay Time				-	71	152	ns	
Turn-Off Fall Time		(Note 4)			-	26	62	ns
e Diode Characteristics	5							
					-	-	100	Α
					-	-	400	Α
				V _{GS} = 0 V, I _{SD} = 50 A			1.3	V
Reverse Recovery Time		$V_{GS} = 0 V, I_{SD} = 50 A$ $dI_F/dt = 100 A/\mu s$			-	78	- /	ns
Reverse Recovery Charge					-	90	-	nC
	Coefficient Zero Gate Voltage Drain Curre Gate to Body Leakage Current inistics Gate Threshold Voltage Static Drain to Source On Resi Forward Transconductance aracteristics Input Capacitance Dutput Capacitance Reverse Transfer Capacitance Energy Releted Output Capaci Total Gate Charge at 10V Gate to Source Gate Charge Gate Charge Threshold to Plat Gate to Drain "Miller" Charge Equivalent Series Resistance haracteristics Furn-On Delay Time Furn-Off Delay Time Furn-Off Fall Time e Diode Characteristics Maximum Continuous Drain to Maximum Pulsed Drain to Sour	Coefficient Zero Gate Voltage Drain Current Gate to Body Leakage Current Gate Threshold Voltage Static Drain to Source On Resistance Forward Transconductance aracteristics Input Capacitance Dutput Capacitance Reverse Transfer Capacitance Energy Releted Output Capacitance Total Gate Charge at 10V Gate to Source Gate Charge Gate to Drain "Miller" Charge Equivalent Series Resistance haracteristics Furn-On Delay Time Turn-Off Delay Time Turn-Off Fall Time E Diode Characteristics Maximum Continuous Drain to Source Diode Forward Voltage	Coefficient $I_D = 230 \mu$ Zero Gate Voltage Drain Current $V_{DS} = 32 V$ Gate to Body Leakage Current $V_{DS} = 32 V$ Gate to Body Leakage Current $V_{GS} = \pm 20$ cristicsGate Threshold Voltage $V_{GS} = V_{DS}$ Static Drain to Source On Resistance $V_{GS} = 10 V$ Forward Transconductance $V_{DS} = 5 V_{DS}$ aracteristicsInput Capacitance $V_{DS} = 5 V_{DS}$ Input Capacitance $V_{DS} = 5 V_{DS}$ Output Capacitance $V_{DS} = 20 V$ Ferergy Releted Output Capacitance $V_{DS} = 20 V$ Gate to Source Gate Charge at 10V $V_{DS} = 20 V$ Gate to Source Gate Charge $V_{DS} = 20 V$ Gate to Drain "Miller" Charge $V_{DS} = 0 V$ Equivalent Series Resistance $f = 1 MHz$ haracteristics $V_{DS} = 10 V$ Turn-On Delay Time $V_{DD} = 20 V$ Turn-Off Delay Time $V_{DS} = 10 V$ Furn-Off Fall Time $V_{DS} = 10 V$ Maximum Continuous Drain to Source Diode Forward CurreOrain to Source Diode Forward CurreOrain to Source Diode Forward CurreOrain to Source Diode Forward VoltageVasi = 0 VSet = 0 VState Charge TimeState Charge TimeState Charge TimeState Charge TimeState Charge TimeState Charge CharacteristicsState CharacteristicsState CharacteristicsState Charge Diode Forward VoltageState Charge Diode Forward VoltageState Charge Diode Forward Voltage <td>Coefficient$I_D = 230 \mu$A, Referenced to Zero Gate Voltage Drain Current$V_{DS} = 32 V, V_{GS} = 0 V$Gate to Body Leakage Current$V_{GS} = \pm 20 V, V_{DS} = 0 V$Gate to Body Leakage Current$V_{GS} = \pm 20 V, V_{DS} = 0 V$FristicsStatic Drain to Source On Resistance$V_{GS} = 10 V, I_D = 50 A$Gate to Body Leakage Current$V_{DS} = 5 V, I_D = 50 A$Static Drain to Source On Resistance$V_{DS} = 5 V, I_D = 50 A$Forward Transconductance$V_{DS} = 20 V, V_{GS} = 0 V$aracteristics$V_{DS} = 20 V, V_{GS} = 0 V$Input Capacitance$V_{DS} = 20 V, V_{GS} = 0 V$Cutput Capacitance$V_{DS} = 20 V, V_{GS} = 0 V$Reverse Transfer Capacitance$V_{DS} = 20 V, V_{GS} = 0 V$Energy Releted Output Capacitance$V_{DS} = 20 V, I_D = 50 A$Gate to Source Gate Charge$V_{CS} = 0 V to 10 V$Gate to Drain "Miller" Charge$V_{DS} = 20 V, I_D = 50 A$Equivalent Series Resistance$f = 1 MHz$haracteristics$I_{CIIII-000} R_{CIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$</td> <td>Coefficient$I_D = 250 \ \mu\text{A}$, Referenced to 25°CZero Gate Voltage Drain Current$V_{DS} = 32 \ V, V_{GS} = 0 \ V$Gate to Body Leakage Current$V_{GS} = \pm 20 \ V, V_{DS} = 0 \ V$InstiticsStatic Drain to Source On Resistance$V_{GS} = 10 \ V, I_D = 50 \ A$Forward Transconductance$V_{DS} = 5 \ V, I_D = 50 \ A$Input Capacitance$V_{DS} = 5 \ V, I_D = 50 \ A$Input Capacitance$V_{DS} = 20 \ V, V_{GS} = 0 \ V$Could Capacitance$V_{DS} = 20 \ V, V_{GS} = 0 \ V$Cotal Gate Charge at 10V$V_{DS} = 20 \ V, V_{GS} = 0 \ V$Gate to Source Gate Charge$V_{DS} = 20 \ V, V_{GS} = 0 \ V$Gate to Drain "Miller" Charge$V_{DS} = 20 \ V, I_D = 50 \ A$Gate to Drain "Miller" Charge$V_{DS} = 0 \ V \ to 10 \ V$Gate to Drain "Miller" Charge$(Note 4)$Furn-On Delay Time$V_{DD} = 20 \ V, I_D = 50 \ A \ V_{GS} = 10 \ V, R_G = 4.7 \ \Omega$Turn-Off Fall Time$(Note 4)$to Diode Characteristics$V_{OS} = 0 \ V, I_D = 50 \ A \ V_{SS} = 10 \ V, R_G = 4.7 \ \Omega$Maximum Continuous Drain to Source Diode Forward Current$(Note 4)$Maximum Pulsed Drain to Source Diode Forward Current$V_{OS} = 0 \ V, I_{SD} = 50 \ A \ V_{SS} = 10 \ V, R_G = 4.7 \ \Omega$</td> <td>Coefficient$T_D = 250 \ \mu\text{A}$, Referenced to 25°C-Zero Gate Voltage Drain Current$V_{DS} = 32 \ V, V_{GS} = 0 \ V$-Gate to Body Leakage Current$V_{GS} = \pm 20 \ V, V_{DS} = 0 \ V$-risticsGate Threshold Voltage$V_{GS} = V_{DS}, I_D = 250 \ \mu\text{A}$2.0Static Drain to Source On Resistance$V_{GS} = 10 \ V, I_D = 50 \ A$-Forward Transconductance$V_{DS} = 5 \ V, I_D = 50 \ A$-aracteristicsInput Capacitance$V_{DS} = 20 \ V, V_{GS} = 0 \ V$-Coutput Capacitance$V_{DS} = 20 \ V, V_{GS} = 0 \ V$-Feregy Releted Output Capacitance$V_{DS} = 20 \ V, V_{GS} = 0 \ V$-Total Gate Charge at 10VGate to Source Gate Charge$V_{DS} = 20 \ V, I_D = 50 \ A$-Gate to Drain "Miller" Charge$V_{CS} = 0 \ V \ 10 \ V$-Equivalent Series Resistancef = 1 \ MHz-haracteristicsfurn-On Delay Time$V_{DD} = 20 \ V, I_D = 50 \ A$-furn-Off Delay Time$V_{CS} = 10 \ V, R_G = 4.7 \ \Omega$-furn-Off Fall Time$V_{OS} = 10 \ V, R_G = 4.7 \ \Omega$-e Diode CharacteristicsMaximum Continuous Drain to Source Diode Forward CurrentOrain to Source Diode Forward CurrentOrain to Source Diode Forward Voltage$V_{GS} = 0 \ V, I_D = 50 \ A$-</td> <td>Coefficient$I_D = 250 \mu A$, Referenced to 25°Zero Gate Voltage Drain Current$V_{DS} = 32 V, V_{QS} = 0 V$Gate to Body Leakage Current$V_{GS} = \pm 20 V, V_{DS} = 0 V$risticsGate Threshold Voltage$V_{GS} = t20 V, V_{DS} = 0 V$Static Drain to Source On Resistance$V_{GS} = 10 V, I_D = 50 A$-1.13-1.13Forward Transconductance$V_{DS} = 5 V, I_D = 50 A$-171-66560Output Capacitance$V_{DS} = 20 V, V_{GS} = 0 V$-6560-2795Reverse Transfer Capacitance$V_{DS} = 20 V, V_{GS} = 0 V$-3896-162Energy Releted Output Capacitance$V_{DS} = 20 V, V_{GS} = 0 V$-3896-162Gate to Source Gate Charge$V_{DS} = 20 V, I_D = 50 A$-2626Gate to Drain "Miller" Charge$V_{DS} = 20 V, I_D = 50 A$-16Equivalent Series Resistancef = 1 MHz-1.4haracteristics34furn-On Delay Time34furn-On Rise TimeV_{DD} = 20 V, I_D = 50 A-26e Diode Characteristics26e Diode CharacteristicsMaximum Continuous Drain to Source Diode Forward Currentfurm-</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td>	Coefficient $I_D = 230 \mu$ A, Referenced to Zero Gate Voltage Drain Current $V_{DS} = 32 V, V_{GS} = 0 V$ Gate to Body Leakage Current $V_{GS} = \pm 20 V, V_{DS} = 0 V$ Gate to Body Leakage Current $V_{GS} = \pm 20 V, V_{DS} = 0 V$ FristicsStatic Drain to Source On Resistance $V_{GS} = 10 V, I_D = 50 A$ Gate to Body Leakage Current $V_{DS} = 5 V, I_D = 50 A$ Static Drain to Source On Resistance $V_{DS} = 5 V, I_D = 50 A$ Forward Transconductance $V_{DS} = 20 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FDMS015N04B — N-Channel PowerTrench[®] MOSFET

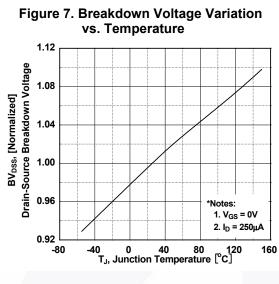
2. Repetitive rating: pulse-width limited by maximum junction temperature.

3. L = 3 mH, I_{AS} = 18.72 A, starting T_J = 25°C. 4. Essentially independent of operating temperature typical characteristics.





Typical Performance Characteristics (Continued)





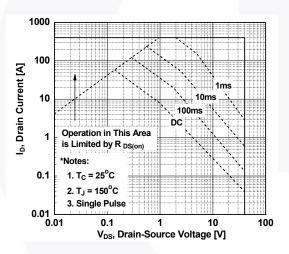
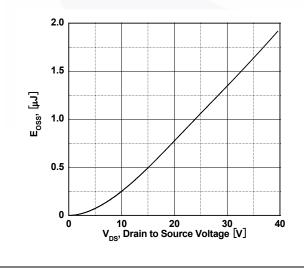
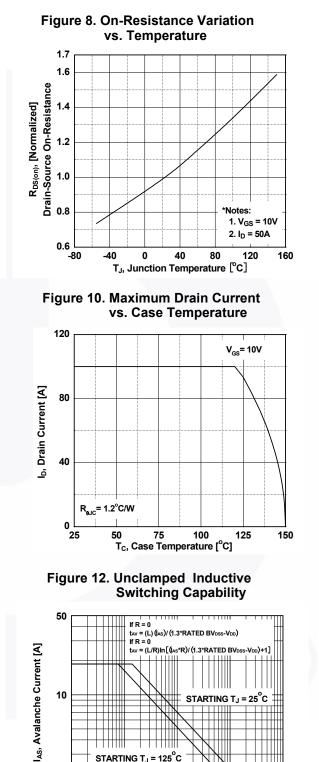


Figure 11. Eoss vs. Drain to Source Voltage





= 125°C

10

t_{AV}, Time In Avalanche [ms]

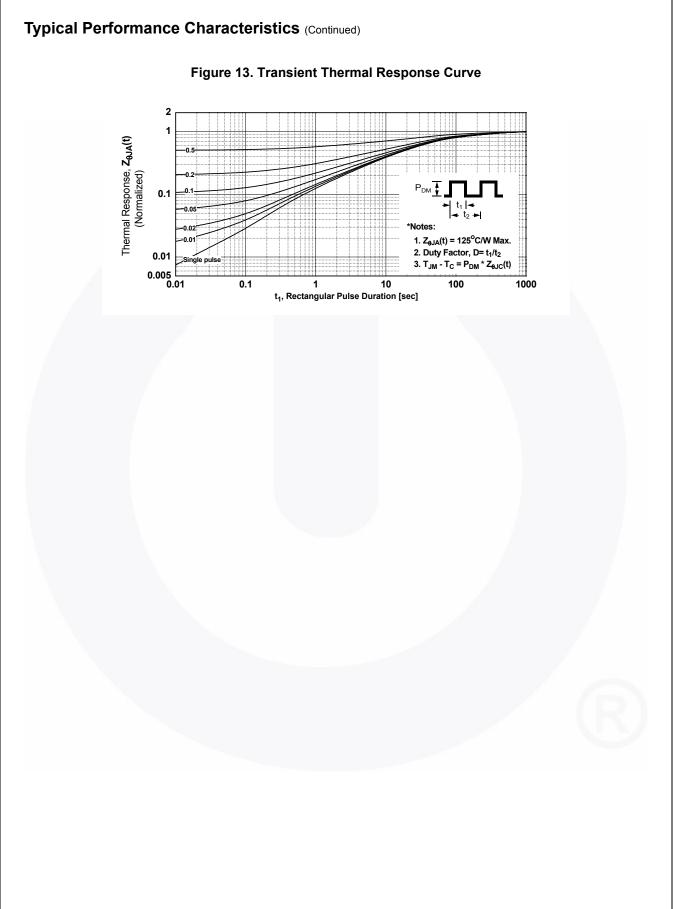
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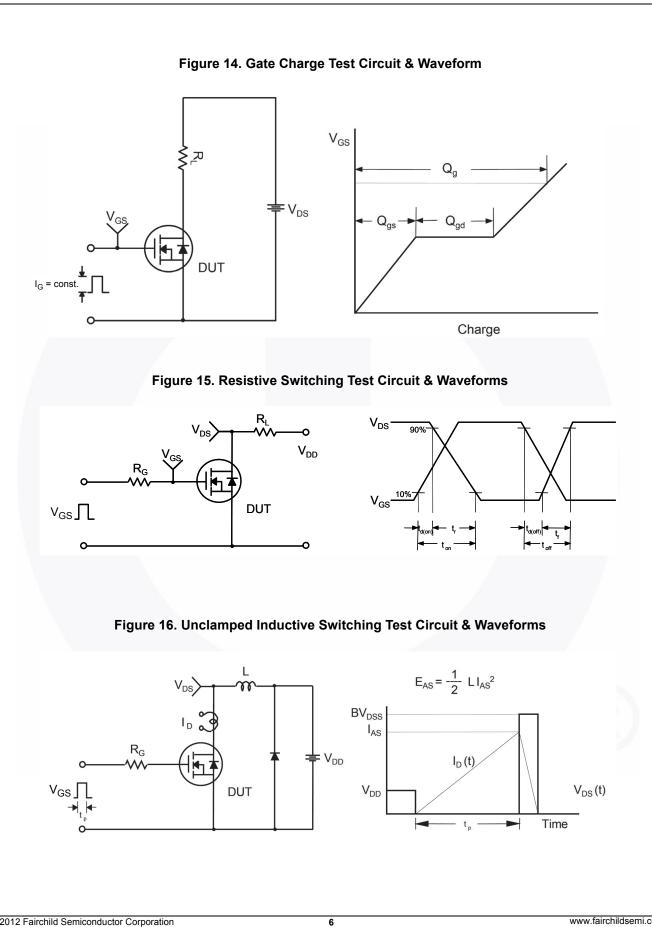
STARTING T

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1 0.1

1000





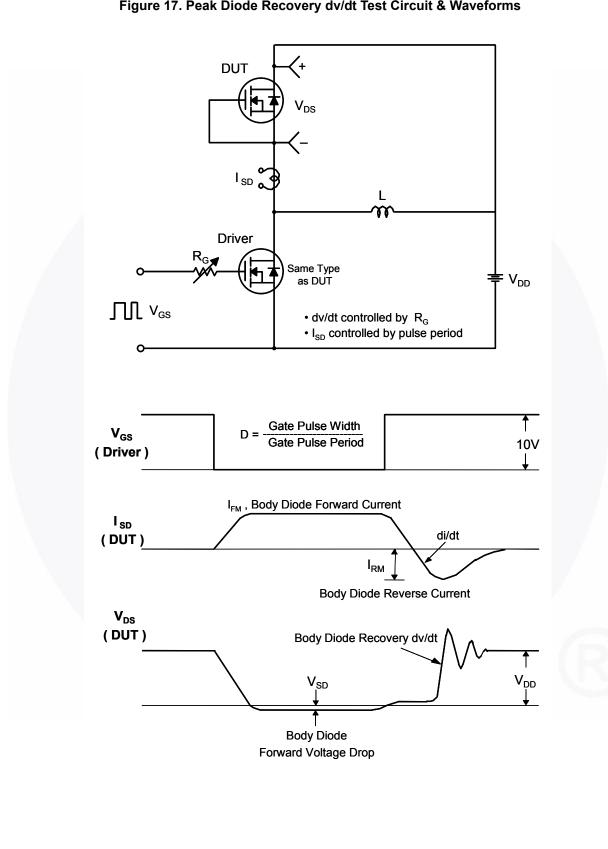
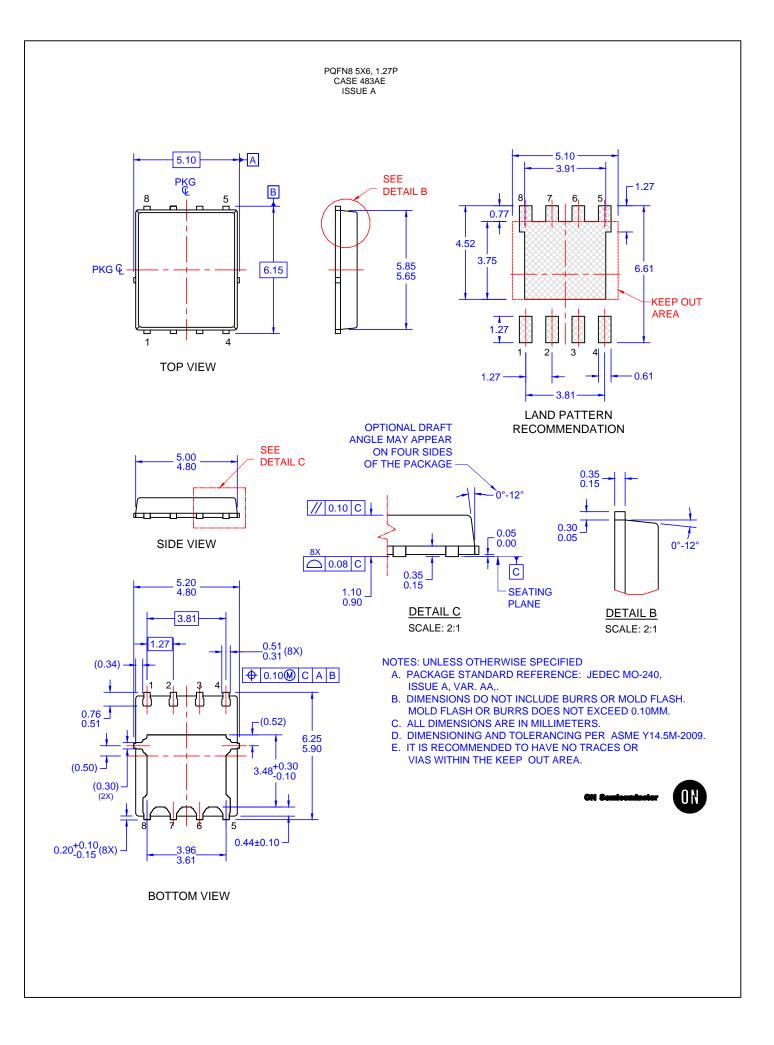


Figure 17. Peak Diode Recovery dv/dt Test Circuit & Waveforms



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