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ON Semiconductor®

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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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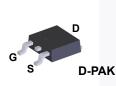
FCD900N60Z N-Channel SuperFET[®] II MOSFET 600 V, 4.5 A, 900 mΩ

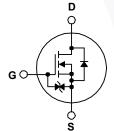
Features

- 650 V @ T₁ = 150°C
- Typ. R_{DS(on)} = 820 mΩ
- Ultra Low Gate Charge (Typ. Q_g = 13 nC)
- Low Effective Output Capacitance (Typ. C_{oss(eff.)} = 49 pF)
- 100% Avalanche Tested
- · ESD Improved Capacity
- RoHS Compliant

Applications

- LCD / LED / PDP TV and Monitor Lighting
- Solar Inverter
- Charger





SuperFET[®] II MOSFET is Fairchild Semiconductor's brand-new high voltage super-junction (SJ) MOSFET family that is utilizing

charge balance technology for outstanding low on-resistance

and lower gate charge performance. This technology is tailored

to minimize conduction loss, provide superior switching performance, dv/dt rate and higher avalanche energy. Consequently,

SuperFET II MOSFET is very suitable for the switching power

applications such as PFC, server/telecom power, FPD TV

power, ATX power and industrial power applications.

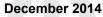
Description

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

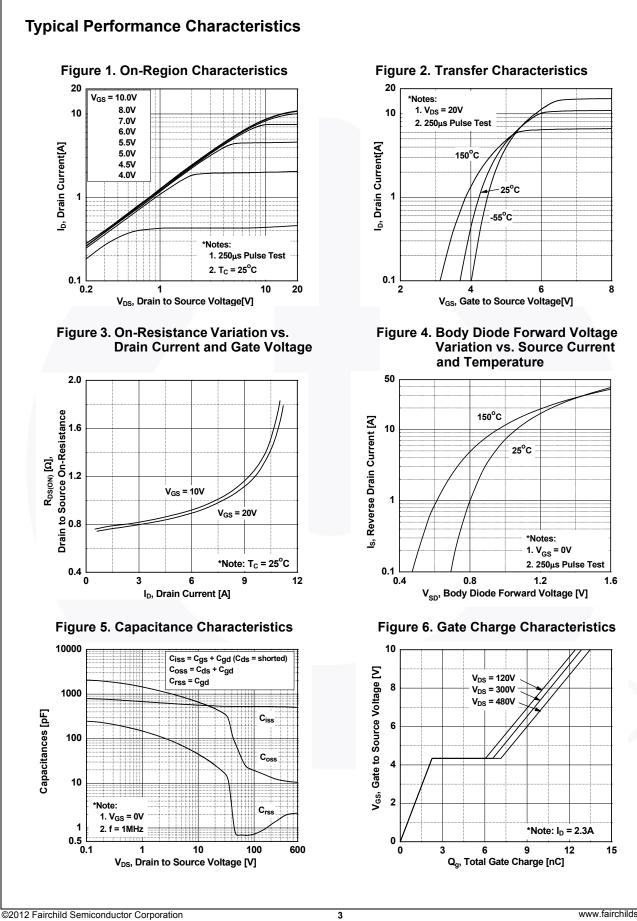
Symbol		Parameter		FCD900N60Z	Unit	
V _{DSS}	Drain to Source Voltage	rain to Source Voltage		600	V	
V _{GSS}		- DC		±20	V	
	Gate to Source Voltage	- AC (f > 1Hz)	±30	V	
I _D Drain Curre	Desis Ourset	- Continuous (T _C = 25 ^o C)		4.5		
	Drain Current	- Continuous (T _C = 100 ^o C)		3.5	A	
DM	Drain Current	- Pulsed	(Note 1)	13.5	Α	
AS	Single Pulsed Avalanche Energy (Note 2)		47.5	mJ		
AR	Avalanche Current (Note 1)		(Note 1)	1	Α	
AR	Repetitive Avalanche Energy (Note 1)		0.52	mJ		
dv/dt	MOSFET dv/dt		100	Mag		
	Peak Diode Recovery dv/dt (Note 3)		20	V/ns		
P _D	Devuer Discinction	(T _C = 25°C)		52	W	
	Power Dissipation	- Derate Above 25°C		0.42	W/ºC	
Γ _J , T _{STG}	Operating and Storage Temperature Range		-55 to +150	°C		
ΓL	Maximum Lead Temperature for Soldering, 1/8" from Case for 5 Seconds		300	°C		

Thermal Characteristics

Symbol	Parameter	FCD900N60Z	Unit
$R_{ ext{ heta}JC}$	Thermal Resistance, Junction to Case, Max.	2.4	°C/W
$R_{ ext{ heta}JA}$	Thermal Resistance, Junction to Ambient, Max.	100	°C/W



DPAK 25°C unless of oltage ure eakdown ent Forward Reverse iistance	Tape and Reel Tape and Reel otherwise noted. Test Conditio $V_{GS} = 0 V$, $I_D = 10 mA$, T $V_{GS} = 0 V$, $I_D = 10 mA$, T $I_D = 10 mA$, Referenced $V_{GS} = 0 V$, $I_D = 4.5 A$ $V_{DS} = 480 V$, $V_{GS} = 0 V$ $V_{BS} = 480 V$, $V_{CS} = 0 V$ $V_{GS} = 20 V$, $V_{DS} = 0 V$ $V_{GS} = -20 V$, $V_{DS} = 0 V$ $V_{GS} = 10 V$, $I_D = 2.3 A$ $V_{DS} = 25 V$, $V_{GS} = 0 V$, $V_{DS} = 25 V$, $V_{GS} = 0 V$, $V_{DS} = 380 V$, $V_{GS} = 0 V$,	$T_{\rm J} = 25^{\circ}{\rm C}$ $T_{\rm J} = 150^{\circ}{\rm C}$ to 25 ^o C	Min. 600 650 - - - 2.5 - - 2.5 - - - - - - - - - - - - -	6 mm Typ. - 0.67 700 - - - 0.82 4.6 543	2500 Max. - - - - 5 20 10 -10 - 10 - 10 - 10 - - 0.90 -	units Unit V/°C V/°C V/°C V ν υΑ uA uA V uA
oltage ure eakdown ent Forward Reverse	$\begin{tabular}{ c c c c } \hline Test Conditio \\ \hline V_{GS} = 0 \ V, \ I_D = 10 \ mA, \ T \\ \hline V_{GS} = 0 \ V, \ I_D = 10 \ mA, \ T \\ \hline I_D = 10 \ mA, \ Referenced \\ \hline V_{GS} = 0 \ V, \ I_D = 4.5 \ A \\ \hline V_{DS} = 480 \ V, \ V_{GS} = 0 \ V \\ \hline V_{DS} = 480 \ V, \ T_C = 125^{00} \\ \hline V_{GS} = 20 \ V, \ V_{DS} = 0 \ V \\ \hline V_{GS} = -20 \ V, \ V_{DS} = 0 \ V \\ \hline V_{GS} = 10 \ V, \ I_D = 2.3 \ A \\ \hline V_{DS} = 20 \ V, \ I_D = 2.3 \ A \\ \hline V_{DS} = 25 \ V, \ V_{GS} = 0 \ V, \\ \hline - f = 1 \ MHz \\ \hline \end{tabular}$	$T_{\rm J} = 25^{\circ}{\rm C}$ $T_{\rm J} = 150^{\circ}{\rm C}$ to 25 ^o C	600 650 - - - - - 2.5 - - -	- - - - - - - - - - - - - - - - - - -	- - - 5 20 10 -10 3.5	V 20°/V V V V Au Au Au Ω
oltage ure eakdown ent Forward Reverse	$\begin{tabular}{ c c c c } \hline Test Conditio \\ \hline V_{GS} = 0 \ V, \ I_D = 10 \ mA, \ T \\ \hline V_{GS} = 0 \ V, \ I_D = 10 \ mA, \ T \\ \hline I_D = 10 \ mA, \ Referenced \\ \hline V_{GS} = 0 \ V, \ I_D = 4.5 \ A \\ \hline V_{DS} = 480 \ V, \ V_{GS} = 0 \ V \\ \hline V_{DS} = 480 \ V, \ T_C = 125^{00} \\ \hline V_{GS} = 20 \ V, \ V_{DS} = 0 \ V \\ \hline V_{GS} = -20 \ V, \ V_{DS} = 0 \ V \\ \hline V_{GS} = 10 \ V, \ I_D = 2.3 \ A \\ \hline V_{DS} = 20 \ V, \ I_D = 2.3 \ A \\ \hline V_{DS} = 25 \ V, \ V_{GS} = 0 \ V, \\ \hline - f = 1 \ MHz \\ \hline \end{tabular}$	$T_{\rm J} = 25^{\circ}{\rm C}$ $T_{\rm J} = 150^{\circ}{\rm C}$ to 25 ^o C	600 650 - - - - - 2.5 - - -	- - - - - - - - - - - - - - - - - - -	- - - 5 20 10 -10 3.5	V 20°/V V V V Au Au Au Ω
eakdown ent Forward Reverse	$\begin{split} & V_{GS} = 0 \; V, \; I_{D} = 10 \; mA, \; T \\ & I_{D} = 10 \; mA, \; Referenced \\ & V_{GS} = 0 \; V, \; I_{D} = 4.5 \; A \\ & V_{DS} = 480 \; V, \; V_{GS} = 0 \; V \\ & V_{DS} = 480 \; V, \; T_{C} = 125^{\circ} O \\ & V_{GS} = 20 \; V, \; V_{DS} = 0 \; V \\ & V_{GS} = 20 \; V, \; V_{DS} = 0 \; V \\ & V_{GS} = -20 \; V, \; V_{DS} = 0 \; V \\ & V_{GS} = 10 \; V, \; I_{D} = 2.50 \; \mu A \\ & V_{DS} = 20 \; V, \; I_{D} = 2.3 \; A \\ & V_{DS} = 20 \; V, \; I_{D} = 2.3 \; A \\ & V_{DS} = 25 \; V, \; V_{GS} = 0 \; V, \\ & f = 1 \; MHz \end{split}$	「 _J = 150°C to 25 [°] C	650 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - 5 20 10 -10 3.5	V/°C V μΑ μΑ μΑ ν Δ
eakdown ent Forward Reverse	$\begin{split} & V_{GS} = 0 \; V, \; I_{D} = 10 \; mA, \; T \\ & I_{D} = 10 \; mA, \; Referenced \\ & V_{GS} = 0 \; V, \; I_{D} = 4.5 \; A \\ & V_{DS} = 480 \; V, \; V_{GS} = 0 \; V \\ & V_{DS} = 480 \; V, \; T_{C} = 125^{\circ} O \\ & V_{GS} = 20 \; V, \; V_{DS} = 0 \; V \\ & V_{GS} = 20 \; V, \; V_{DS} = 0 \; V \\ & V_{GS} = -20 \; V, \; V_{DS} = 0 \; V \\ & V_{GS} = 10 \; V, \; I_{D} = 2.50 \; \mu A \\ & V_{DS} = 20 \; V, \; I_{D} = 2.3 \; A \\ & V_{DS} = 20 \; V, \; I_{D} = 2.3 \; A \\ & V_{DS} = 25 \; V, \; V_{GS} = 0 \; V, \\ & f = 1 \; MHz \end{split}$	「 _J = 150°C to 25 [°] C	650 - - - - - - - - - - - - - - - - - - -	- 0.67 700 - - - 0.82 4.6	- - 5 20 10 -10 3.5	V/°C V μΑ μΑ μΑ ν Δ
eakdown ent Forward Reverse	$\begin{split} & V_{GS} = 0 \; V, \; I_{D} = 10 \; mA, \; T \\ & I_{D} = 10 \; mA, \; Referenced \\ & V_{GS} = 0 \; V, \; I_{D} = 4.5 \; A \\ & V_{DS} = 480 \; V, \; V_{GS} = 0 \; V \\ & V_{DS} = 480 \; V, \; T_{C} = 125^{\circ} O \\ & V_{GS} = 20 \; V, \; V_{DS} = 0 \; V \\ & V_{GS} = 20 \; V, \; V_{DS} = 0 \; V \\ & V_{GS} = -20 \; V, \; V_{DS} = 0 \; V \\ & V_{GS} = 10 \; V, \; I_{D} = 2.50 \; \mu A \\ & V_{DS} = 20 \; V, \; I_{D} = 2.3 \; A \\ & V_{DS} = 20 \; V, \; I_{D} = 2.3 \; A \\ & V_{DS} = 25 \; V, \; V_{GS} = 0 \; V, \\ & f = 1 \; MHz \end{split}$	「 _J = 150°C to 25 [°] C	- - - - 2.5 - - -	700 - - - - 0.82 4.6	- 5 20 10 -10 3.5	V/°C V μΑ μΑ μΑ ν Δ
eakdown ent Forward Reverse	$V_{GS} = 0 \text{ V}, I_D = 4.5 \text{ A}$ $V_{DS} = 480 \text{ V}, V_{GS} = 0 \text{ V}$ $V_{DS} = 480 \text{ V}, T_C = 125^{\circ}(0)$ $V_{GS} = 20 \text{ V}, V_{DS} = 0 \text{ V}$ $V_{GS} = -20 \text{ V}, V_{DS} = 0 \text{ V}$ $V_{GS} = 10 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 20 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V},$ $f = 1 \text{ MHz}$		- - - 2.5 - -	700 - - - - 0.82 4.6	- 5 20 10 -10 3.5	V Aμ Au Au V Ω
ent Forward Reverse	$V_{DS} = 480 V, V_{GS} = 0 V$ $V_{DS} = 480 V, T_{C} = 125^{\circ}(V_{GS} = 20 V, V_{DS} = 0 V)$ $V_{GS} = 20 V, V_{DS} = 0 V$ $V_{GS} = -20 V, V_{DS} = 0 V$ $V_{GS} = 10 V, I_{D} = 2.3 A$ $V_{DS} = 20 V, I_{D} = 2.3 A$ $V_{DS} = 25 V, V_{GS} = 0 V,$ $f = 1 MHz$		- - - 2.5 - -	- - - 0.82 4.6	5 20 10 -10 3.5	μΑ μΑ μΑ μΑ ν Α
Forward Reverse	$V_{DS} = 480 \text{ V}, \text{T}_{C} = 125^{\circ}\text{G}$ $V_{GS} = 20 \text{ V}, \text{V}_{DS} = 0 \text{ V}$ $V_{GS} = -20 \text{ V}, \text{V}_{DS} = 0 \text{ V}$ $V_{GS} = 10 $		- - 2.5 - -	0.82 4.6	20 10 -10 3.5	uA uA UA V Ω
Forward Reverse	$V_{GS} = 20 \text{ V}, V_{DS} = 0 \text{ V}$ $V_{GS} = -20 \text{ V}, V_{DS} = 0 \text{ V}$ $V_{GS} = V_{DS}, I_D = 250 \mu\text{A}$ $V_{GS} = 10 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 20 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V},$ $f = 1 \text{ MHz}$		- - 2.5 - - -	0.82 4.6	10 -10 3.5	uA uA UA V Ω
Reverse	$V_{GS} = -20 \text{ V}, V_{DS} = 0 \text{ V}$ $V_{GS} = V_{DS}, I_D = 250 \mu\text{A}$ $V_{GS} = 10 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 20 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V},$ $f = 1 \text{ MHz}$		2.5 - -	0.82 4.6	-10 3.5	uA V Ω
istance	$V_{GS} = V_{DS}, I_D = 250 \ \mu A$ $V_{GS} = 10 \ V, I_D = 2.3 \ A$ $V_{DS} = 20 \ V, I_D = 2.3 \ A$ $V_{DS} = 25 \ V, V_{GS} = 0 \ V,$ $f = 1 \ MHz$		2.5 - -	0.82 4.6	3.5	V Ω
	$V_{GS} = 10 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 20 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V},$ f = 1 MHz		-	0.82 4.6		Ω
	$V_{GS} = 10 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 20 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V},$ f = 1 MHz		-	0.82 4.6		Ω
	$V_{GS} = 10 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 20 \text{ V}, I_D = 2.3 \text{ A}$ $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V},$ f = 1 MHz		-	0.82 4.6		Ω
	$V_{DS} = 20 \text{ V}, \text{ I}_{D} = 2.3 \text{ A}$ $V_{DS} = 25 \text{ V}, \text{ V}_{GS} = 0 \text{ V},$ f = 1 MHz			4.6	-	
	V _{DS} = 25 V, V _{GS} = 0 V, f = 1 MHz					0
2	f = 1 MHz	_		543		
	f = 1 MHz	_		543		
l	f = 1 MHz	_	-		720	pF
}				400	530	pF
	$V_{DO} = 380 \text{ V} \text{ V}_{OO} = 0 \text{ V}$		-	20	30	pF
	105 000 1, 165 0 1,	f = 1 MHz	-	11	-	pF
	V_{DS} = 0 V to 480 V, V_{GS}	= 0 V	-	49	-	pF
	V _{DS} = 380 V, I _D = 2.3 A, V _{GS} = 10 V		-	13	17	nC
			-	2.3	-	nC
		(Note 4)	-	4.8	-	nC
	f = 1 MHz		-	2.4	-	Ω
rn-On Delay Time		<u></u>	10.9	32	ns	
	V_{DD} = 380 V, I _D = 2.3 A, V_{GS} = 10 V, R _G = 4.7 Ω (Note 4)		-	5.3	21	ns
			-	33.6	77	ns
			-	11.9	34	ns
		(,				<u> </u>
	Enward Current				4.5	A
Pulsed Drain to Source Diode Forward Current			_			A
	I		_			V
i voltage				156	1.2	ns
						μC
		Source Diode Forward Current rce Diode Forward Current d Voltage $V_{GS} = 0 \text{ V}, \text{ I}_{SD} = 2.3 \text{ A}$ $V_{GS} = 0 \text{ V}, \text{ I}_{SD} = 2.3 \text{ A},$ $dI_F/dt = 100 \text{ A}/\mu\text{s}$ temperature.	Source Diode Forward Current Image: Current forward Current Image: VGS = 0 V, ISD = 2.3 A Image: Current forward Current forward Current Image: VGS = 0 V, ISD = 2.3 A Image: Current forward Current forward Current forward Current Image: VGS = 0 V, ISD = 2.3 A Image: Current forward C	Source Diode Forward Current - rce Diode Forward Current - d Voltage $V_{GS} = 0 V, I_{SD} = 2.3 A$ - $V_{GS} = 0 V, I_{SD} = 2.3 A,$ - $V_{GS} = 0 V, I_{SD} = 2.3 A,$ - $dI_F/dt = 100 A/\mu s$ - temperature.	Source Diode Forward Currentrce Diode Forward Currentd Voltage $V_{GS} = 0 V$, $I_{SD} = 2.3 A$ - $V_{GS} = 0 V$, $I_{SD} = 2.3 A$,-156 $dI_F/dt = 100 A/\mu s$ -1.3	Source Diode Forward Current - - 4.5 rce Diode Forward Current - - 13.5 d Voltage $V_{GS} = 0 V, I_{SD} = 2.3 A$ - - 1.2 $V_{GS} = 0 V, I_{SD} = 2.3 A,$ - 156 - $V_{GS} = 0 V, I_{SD} = 2.3 A,$ - 1.3 - $V_{GS} = 0 V, I_{SD} = 2.3 A,$ - 1.3 - $V_{GS} = 0 V, I_{SD} = 2.3 A,$ - 1.3 - $V_{GS} = 0 V, I_{SD} = 2.3 A,$ - 1.3 - $V_{GS} = 0 V, I_{SD} = 2.3 A,$ - 1.3 -



FCD900N60Z Rev. C4



*Notes:

100

50 75 100 T_C, Case Temperature [[°]C]

1. V_{GS} = 10V

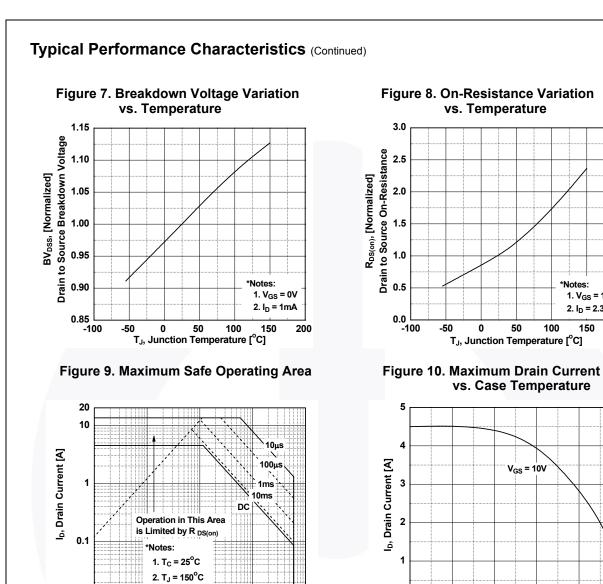
2. I_D = 2.3A

150

125

150

200



3. Single Pulse

1

10

V_{DS}, Drain to Source Voltage [V]

Figure 11. Eoss vs. Drain to Source Voltage

100 200 300 400 500 V_{DS}, Drain to Source Voltage [V]

100



100

0.01

2.8

2.4

2.0

1.2

0.8

0.4

0.0 l⁄2 0

E_{oss}, [µJ] 1.6

0.1

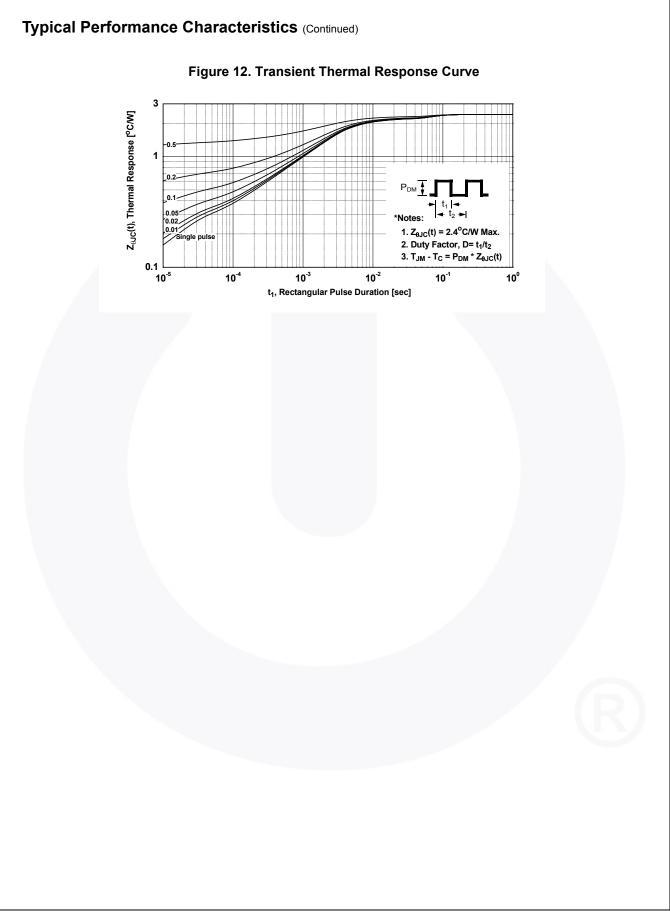
4

0 ∟ 25

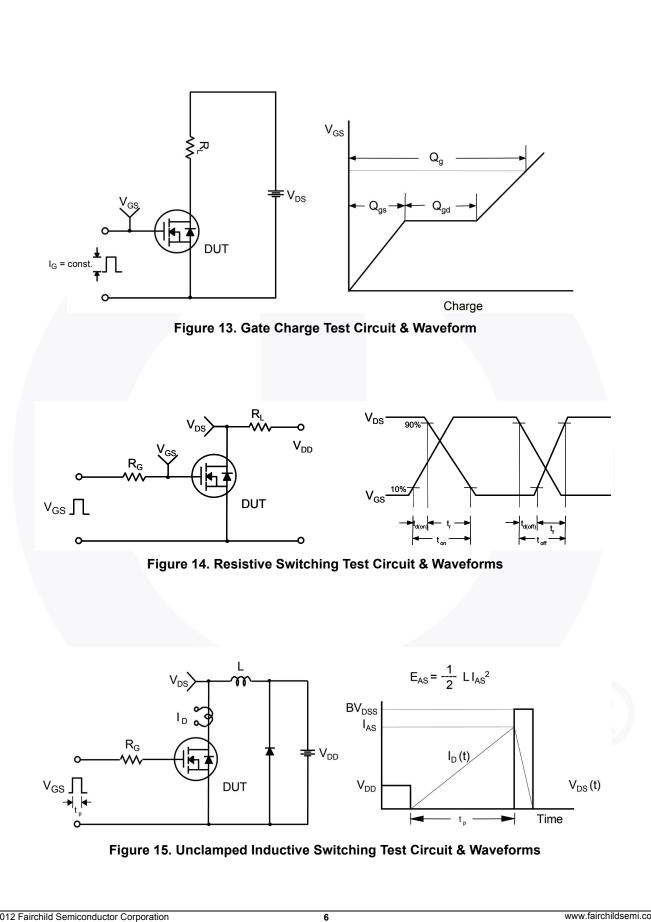
50

1000

600



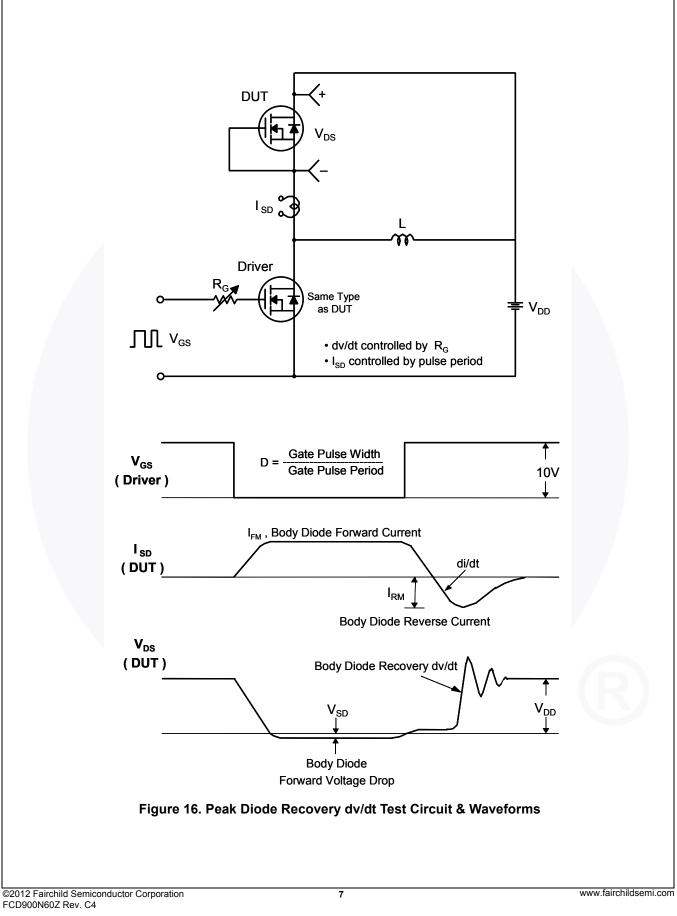
FCD900N60Z — N-Channel SuperFET[®] II MOSFET

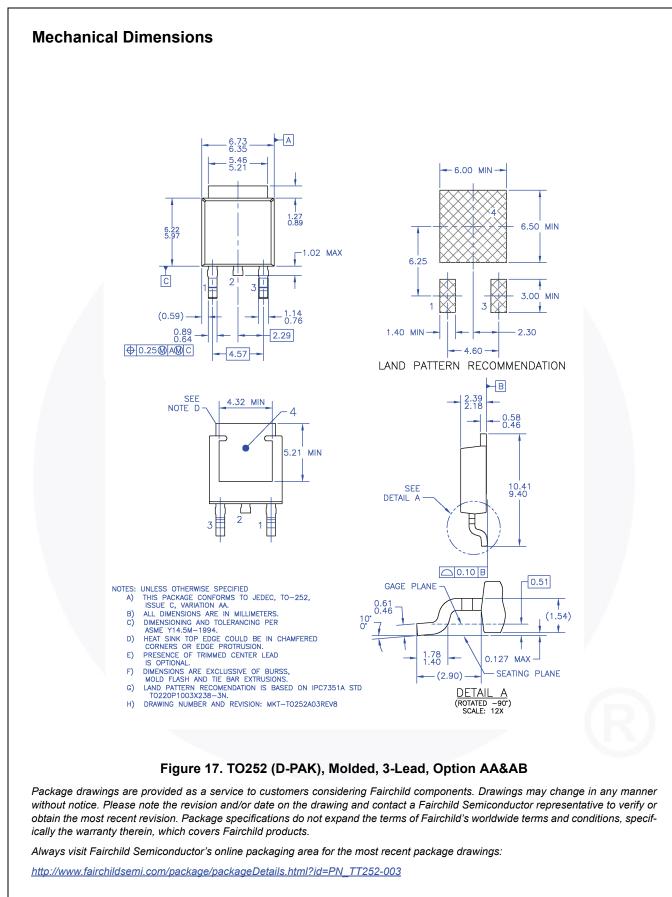


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- A critical component in any component of a life support, device, or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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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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