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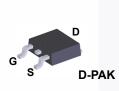
FCD600N60Z N-Channel SuperFET[®] II MOSFET 600 V, 7.4 A, 600 mΩ

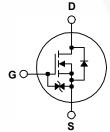
Features

- 650 V @ T_{.1} = 150°C
- Typ. R_{DS(on)} = 510 mΩ
- Ultra Low Gate Charge (Typ. Q_q = 20 nC)
- Low Effective Output Capacitance (Typ. C_{oss(eff.)} = 74 pF)
- 100% Avalanche Tested
- ESD Improved Capacity
- RoHS Compliant

Applications

- LCD / LED / PDP TV and Monitor Lighting
- Solar Inverter
- AC-DC Power Supply





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			FCD600N60Z	Unit
V _{DSS} Drain to Source Voltage				600	V
V _{GSS}	Cata ta Cauraa Valtaga	- DC		±20	V
	Gate to Source Voltage	- AC (f > 1	1 Hz)	±30	V
I _D	Drain Current	- Continuous (T _C = 25 ^o C)		7.4	- A
		- Continuous (T _C = 100 ^o C)		4.7	
DM	Drain Current	- Pulsed (No	te 1)	22.2	А
- AS	Single Pulsed Avalanche Energy (Note 2)		ote 2)	135	mJ
AR	Avalanche Current (Note 1)		ote 1)	1.5	А
E _{AR}	Repetitive Avalanche Energy (Note 1)		ote 1)	0.89	mJ
dv/dt	MOSFET dv/dt		100	1//20	
	Peak Diode Recovery dv/dt (Note 3)			20	V/ns
P _D	Power Dissipation	(T _C = 25°C)		89	W
		- Derate Above 25°C		0.71	W/ºC
T _J , T _{STG}	Operating and Storage Temperature Range			-55 to +150	°C
TL	Maximum Lead Temperature for	Maximum Lead Temperature for Soldering, 1/8" from Case for 5 Seconds		300	°C

Thermal Characteristics

Symbol	Parameter	FCD600N60Z	Unit	
$R_{\theta JC}$	Thermal Resistance, Junction to Case, Max.	1.4	°C/W	
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient, Max.	100	0/11	

60Z FCD600N60Z	Package	Packing Method	Reel Size	Тар	e Width	Qua	ntity
	DPAK	Tape and Reel	330 mm	1	6 mm	2500 units	
Characteristics T _C = 25°C	unless of	nerwise noted.					
Parameter		Test Conditio	ons	Min.	Тур.	Max.	Uni
eristics					,,	I	1
		V _{GS} = 0 V, I _D = 10 mA, T _J = 25°C		600	-	-	v
		$V_{GS} = 0 \text{ V}, \text{ I}_{D} = 10 \text{ mA}, \text{ T}_{J} = 150^{\circ}\text{C}$		650	-	-	v
Breakdown Voltage Temperature Coefficient		I_D = 10 mA, Referenced to 25°C		-	0.67	-	V/ºC
Drain to Source Avalanche Breakdo Voltage	wn v	/ _{GS} = 0 V, I _D = 7.4 A		-	700	-	V
,		V _{DS} = 480 V, V _{GS} = 0 V		-	-	5	μA
-				-	-	20	μι
Gate-Body Leakage Current	V	$V_{\rm GS} = \pm 20 \text{ V}, \text{ V}_{\rm DS} = 0 \text{ V}$		-	-	±10	uA
eristics							
Gate Threshold Voltage	N	/ _{GS} = V _{DS} , I _D = 250 μA		2.5	-	3.5	V
Static Drain to Source On Resistand				-	0.51	0.6	Ω
Forward Transconductance	N	$I_{\rm DS}$ = 20 V, $I_{\rm D}$ = 3.7 A		-	6.7	-	S
aracteristics							
	It Capacitance		-	840	1120	pF	
		V _{DS} = 25 V, V _{GS} = 0 V, f = 1 MHz		-	630	840	pF
	t			-	30	45	pF
	\ \	/ _{DS} = 380 V, V _{GS} = 0 V	, f = 1 MHz	-	16.5	-	pF
			$V_{DS} = 0 V \text{ to } 480 V, V_{GS} = 0 V$		74	-	pF
Total Gate Charge at 10V			-	-	20	26	nC
Gate to Source Gate Charge		V _{GS} = 10 V (Note 4) f = 1 MHz		-	3.4	-	nC
Gate to Drain "Miller" Charge				-	7.5	-	nC
Equivalent Series Resistance	f			-	2.89	-	Ω
haracteristics							
			-	13	36	ns	
Turn-On Rise Time	V _{DD} = 380 V, I _D = 3.7 A,			7	24	ns	
Turn-Off Delay Time	V	$V_{GS} = 10 \text{ V}, \text{ R}_{G} = 4.7 \Omega$		-	39	88	ns
Turn-Off Fall Time				-	9	28	ns
e Diode Characteristics						/	
	ce Diode F	Forward Current		-	-	74	А
Maximum Pulsed Drain to Source D				-	-	22.2	A
Drain to Source Diode Forward Volta		$V_{\rm GS} = 0 \text{ V}, \text{ I}_{\rm SD} = 3.7 \text{ A}$		_	-	1.2	V
		$V_{GS} = 0 \text{ V}, \text{ I}_{SD} = 3.7 \text{ A},$		-	200	-	ns
Reverse Recovery Time		dl _F /dt = 100 A/μs		-	2.3	-	μC
	Breakdown Voltage Temperature Coefficient Drain to Source Avalanche Breakdo Voltage Zero Gate Voltage Drain Current Gate-Body Leakage Current eristics Gate Threshold Voltage Static Drain to Source On Resistand Forward Transconductance naracteristics Input Capacitance Output Capacitance Reverse Transfer Capacitance Output Capacitance Effective Output Capacitance Effective Output Capacitance Total Gate Charge at 10V Gate to Source Gate Charge Gate to Drain "Miller" Charge Equivalent Series Resistance Characteristics Turn-On Delay Time Turn-Off Delay Time Turn-Off Fall Time E Diode Characteristics Maximum Continuous Drain to Sour	Drain to Source Breakdown Voltage V Breakdown Voltage Temperature In Coefficient In Drain to Source Avalanche Breakdown V Voltage Zero Gate Voltage Drain Current V Gate-Body Leakage Current V Gate-Body Leakage Current V Gate Threshold Voltage N Static Drain to Source On Resistance N Forward Transconductance N Paracteristics Input Capacitance Output Capacitance M Output Capacitance N Output Capacitance N Gate to Source Gate Charge N Gate to Drain "Miller" Charge N Equivalent Series Resistance F Haracteristics N Turn-On Delay Time N Turn-Off Delay Time N Turn-Off Fall Time N Turn-Off Fall Time N Baximum Continuous Drain to Source Diode F	Drain to Source Breakdown Voltage $V_{GS} = 0 \text{ V}, I_D = 10 \text{ mA},$ Breakdown Voltage Temperature CoefficientI_D = 10 mA, ReferencedDrain to Source Avalanche Breakdown Voltage $V_{GS} = 0 \text{ V}, I_D = 7.4 \text{ A}$ Zero Gate Voltage Drain Current $V_{DS} = 480 \text{ V}, V_{GS} = 0 \text{ V}$ VDS = 480 V, V_{CS} = 0 V, V_{DS} = 480 V, V_{CS} = 1250Gate-Body Leakage Current $V_{GS} = t20 \text{ V}, V_{DS} = 0 \text{ V}$ eristicsStatic Drain to Source On Resistance $V_{GS} = 10 \text{ V}, I_D = 3.7 \text{ A}$ Gate Threshold Voltage $V_{GS} = 10 \text{ V}, I_D = 3.7 \text{ A}$ Forward Transconductance $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ MHz}$ Input Capacitance Output Capacitance $V_{DS} = 380 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ MHz}$ Output Capacitance $V_{DS} = 380 \text{ V}, V_{GS} = 0 \text{ V}, G = 10 \text{ M}, G = 10 \text{ V}, G = 10 \text{ M}, G = 10 \text{ V}, G = 10 \text{ V},$	Drain to Source Breakdown Voltage $V_{GS} = 0 \text{ V}, I_D = 10 \text{ mA}, T_J = 150^{\circ}\text{C}$ Breakdown Voltage Temperature CoefficientI_D = 10 mA, Referenced to 25°C Drain to Source Avalanche Breakdown Voltage $V_{GS} = 0 \text{ V}, I_D = 7.4 \text{ A}$ Zero Gate Voltage Drain Current $V_{DS} = 480 \text{ V}, V_{GS} = 0 \text{ V}$ Gate-Body Leakage Current $V_{GS} = \pm 20 \text{ V}, V_{DS} = 0 \text{ V}$ eristics $V_{GS} = \pm 20 \text{ V}, V_{DS} = 0 \text{ V}$ Gate Threshold Voltage $V_{GS} = \pm 20 \text{ V}, V_{DS} = 0 \text{ V}$ eristics $V_{GS} = 10 \text{ V}, I_D = 3.7 \text{ A}$ Forward Transconductance $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V}, I_D = 3.7 \text{ A}$ forward Transconductance $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V}, I_D = 10 \text{ MHz}$ Output Capacitance $V_{DS} = 25 \text{ V}, V_{GS} = 0 \text{ V}, I_D = 3.7 \text{ A}$ Reverse Transfer Capacitance $V_{DS} = 380 \text{ V}, V_{GS} = 0 \text{ V}, I_D = 3.7 \text{ A}, I_D =$	$\begin{tabular}{ c c c c c } \hline U_{GS} = 0 & V, & I_D = 10 & mA, & T_J = 150^\circ C & 650 \\ \hline V_{GS} = 0 & V, & I_D = 10 & mA, & T_J = 150^\circ C & - \\ \hline Drain to Source Avalanche Breakdown \\ Voltage \\ \hline Drain to Source Avalanche Breakdown \\ Voltage \\ \hline V_{GS} = 0 & V, & I_D = 7.4 & A & - \\ \hline V_{DS} = 480 & V, & V_{GS} = 0 & V & - \\ \hline V_{DS} = 480 & V, & V_{CS} = 0 & V & - \\ \hline V_{DS} = 480 & V, & V_{CS} = 0 & V & - \\ \hline Oristics \\ \hline Gate Body Leakage Current \\ \hline V_{GS} = \pm 20 & V, & V_{DS} = 0 & V & - \\ \hline eristics \\ \hline Gate Threshold Voltage \\ \hline V_{GS} = 10 & V, & I_D = 250 & \mu A & 2.5 \\ \hline Static Drain to Source On Resistance \\ \hline V_{DS} = 20 & V, & I_D = 3.7 & A & - \\ \hline erive Capacitance \\ \hline Input Capacitance \\ \hline Output Capacitance \\ \hline V_{DS} = 20 & V, & V_{GS} = 0 & V, & f = 1 & MHz \\ \hline Reverse Transfer Capacitance \\ \hline V_{DS} = 380 & V, & V_{GS} = 0 & V, & f = 1 & MHz \\ \hline Could Capacitance \\ \hline V_{DS} = 380 & V, & V_{GS} = 0 & V, & f = 1 & MHz \\ \hline Cotal Gate Charge & I & 0 & V \\ \hline Total Gate Charge & I & 0 & V \\ \hline Gate to Drain "Miller" Charge \\ \hline Turn-On Delay Time \\ \hline Turn-On Rise Time \\ \hline Turn-On Fise Time \\ $	$\begin{tabular}{ c c c c c } \hline $V_{GS} = 0 \ V, \ I_D = 10 \ mA, \ T_J = 150^\circ C & 650 & - \\ \hline $V_{GS} = 0 \ V, \ I_D = 10 \ mA, \ Referenced to 25^\circ C & - & 0.67 \\ \hline $V_{GS} = 0 \ V, \ I_D = 7.4 \ A & - & 700 \\ \hline $V_{DS} = 480 \ V, \ V_{CS} = 0 \ V & - & - \\ \hline $V_{DS} = 480 \ V, \ T_C = 125^\circ C & - & - \\ \hline $V_{DS} = 480 \ V, \ T_C = 125^\circ C & - & - \\ \hline $V_{DS} = 480 \ V, \ T_C = 125^\circ C & - & - \\ \hline $V_{DS} = 480 \ V, \ T_C = 125^\circ C & - & - \\ \hline $V_{CS} = 0 \ V, \ V_{DS} = 0 \ V & - & - \\ \hline $V_{DS} = 480 \ V, \ T_C = 125^\circ C & - & - \\ \hline $V_{DS} = 480 \ V, \ T_C = 125^\circ C & - & - \\ \hline $V_{DS} = 480 \ V, \ T_C = 125^\circ C & - & - \\ \hline $V_{DS} = 480 \ V, \ T_C = 125^\circ C & - & - \\ \hline $V_{DS} = 10 \ V, \ I_D = 3.7 \ A & - & 0.51 \\ \hline $V_{DS} = 20 \ V, \ I_D = 3.7 \ A & - & 6.7 \\ \hline $V_{DS} = 20 \ V, \ I_D = 3.7 \ A & - & 6.7 \\ \hline $V_{DS} = 280 \ V, \ T_S = 0 \ V, \ I_S = 0 \ V, \ I_S = 0 \ V, \ I_S = 300 \\ \hline $U_{DU} \ U_{Capacitance} & V_{DS} = 25 \ V, \ V_{GS} = 0 \ V, \ I_S = 0 \ V, \ I_S = 300 \\ \hline $U_{DU} \ U_{Capacitance} & V_{DS} = 380 \ V, \ V_{CS} = 0 \ V, \ I_S = 0 \ V, \ I_S = 300 \\ \hline $U_{DU} \ U_{Capacitance} & V_{DS} = 380 \ V, \ V_{CS} = 0 \ V, \ I_S = 300 \\ \hline $U_{DS} \ I_S \ V_{CS} = 0 \ V, \ I_S = 3.7 \ A, \ I_S \$	$\begin{tabular}{ c c c c c c } \hline $V_{GS} = 0 \ V, \ I_D = 10 \ mA, \ T_J = 150^\circ C & 650 & - & - & - & - & - & - & - & - & - & $

25°C

6

7

1.2

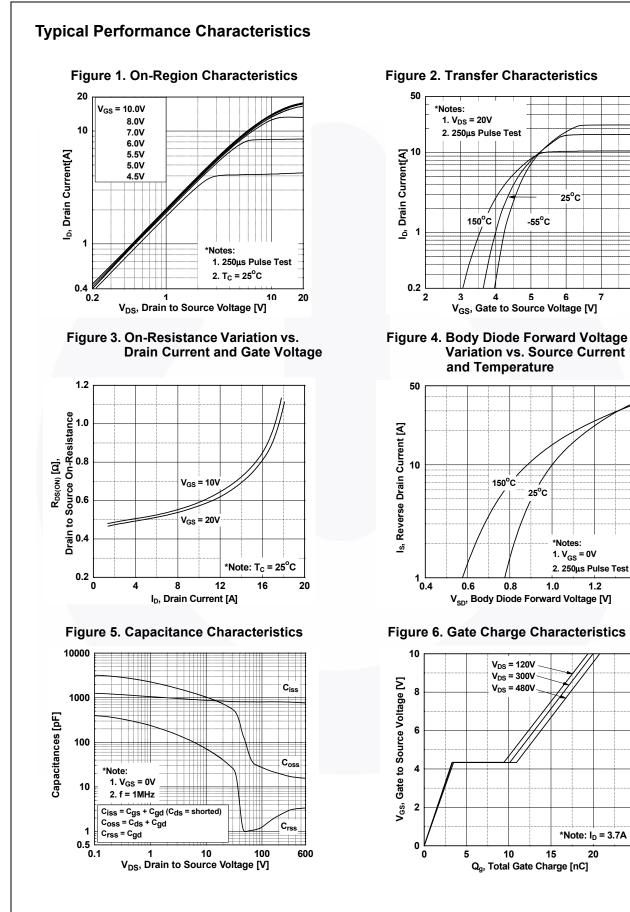
*Note: I_D = 3.7A

20

25

1.4

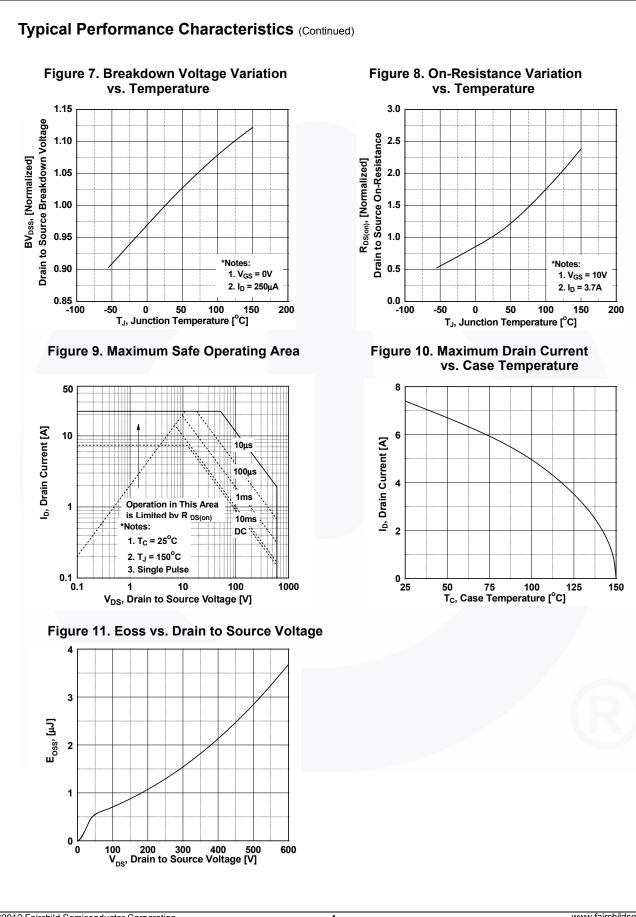
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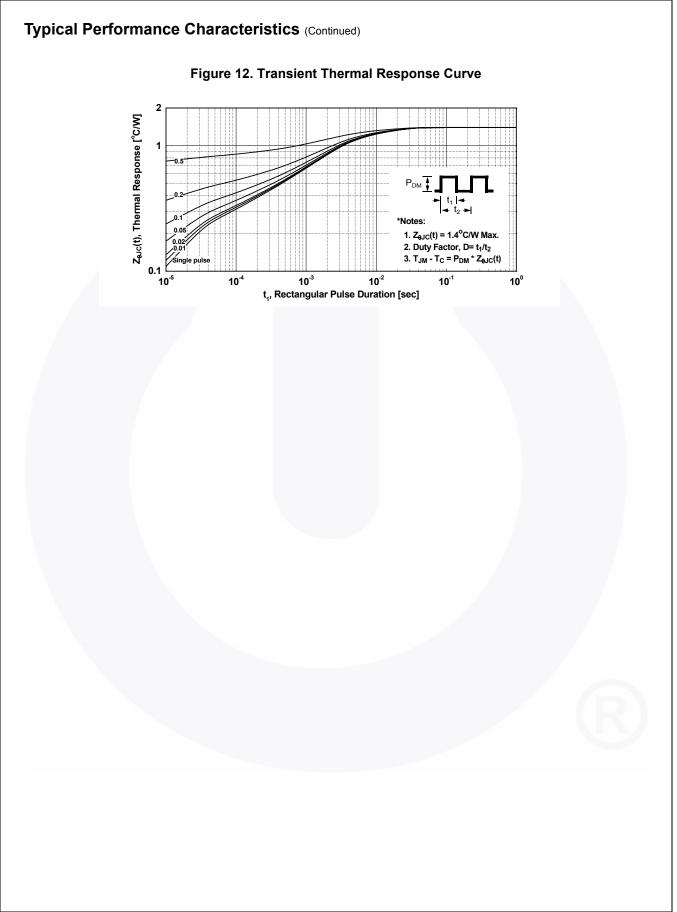


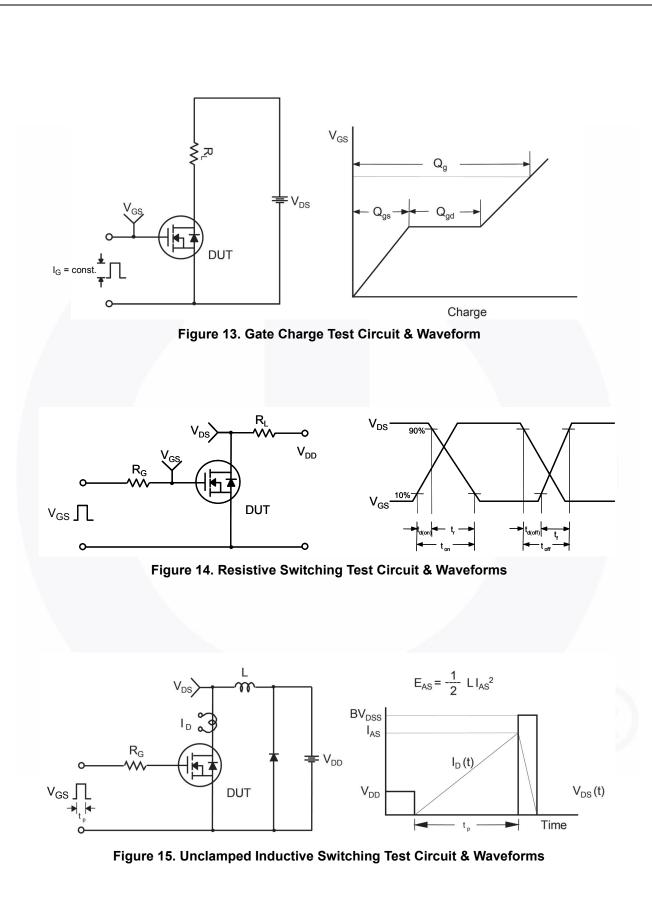
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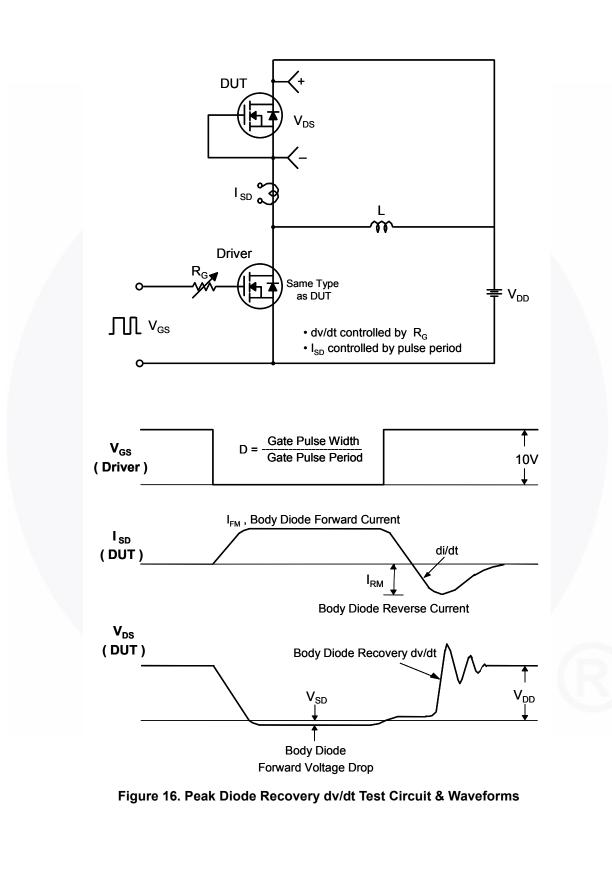


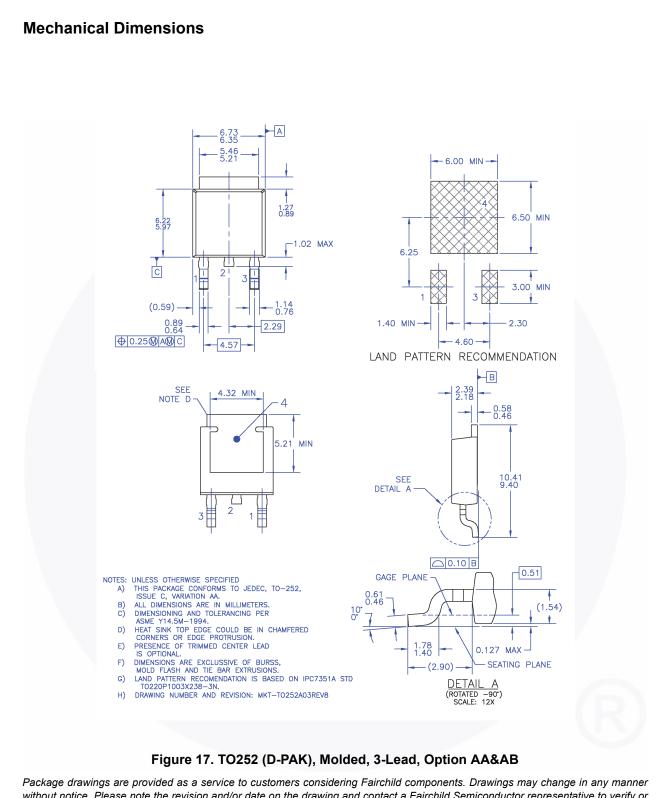




FCD600N60Z — N-Channel SuperFET[®] II MOSFET

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