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October 2013

FDD120AN15A0

N-Channel PowerTrench[®] MOSFET 150 V, 14 A, 120 m Ω

Features

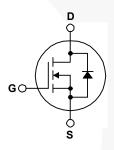
- $R_{DS(on)}$ = 101 m Ω (Typ.) @ V_{GS} = 10 V, I_D = 4 A
- $Q_{G(tot)} = 11.2 \text{ nC (Typ.)} @ V_{GS} = 10 \text{ V}$
- · Low Miller Charge
- · Low Q_{rr} Body Diode
- UIS Capability (Single Pulse and Repetitive Pulse)

Applications

- Consumer Appliances
- LED TV
- Synchronous Rectification
- Uninterruptible Power Supply
- · Micro Solar Inverter

Formerly developmental type 82845





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

Symbol	Parameter	FDD120AN15A0	Unit
V _{DSS}	Drain to Source Voltage	150	V
V _{GS}	Gate to Source Voltage	±20	V
	Drain Current		
I _D	Continuous ($T_C = 25^{\circ}C$, $V_{GS} = 10V$)	14	Α
	Continuous ($T_C = 100^{\circ}$ C, $V_{GS} = 10V$)	9.7	А
	Continuous ($T_{amb} = 25^{\circ}C$, $V_{GS} = 10V$) with $R_{\theta JA} = 52^{\circ}C/W$	2.8	А
	Pulsed	Figure 4	Α
E _{AS}	Single Pulse Avalanche Energy (Note 1)	122	mJ
	Power dissipation	65	W
P_{D}	Derate above 25°C	0.43	W/°C
T _J , T _{STG}	Operating and Storage Temperature -55 to 175		

Thermal Characteristics

$R_{\theta JC}$	Thermal Resistance, Junction to Case, Max.	2.31	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, Max.	100	°C/W
	Thermal Resistance, Junction to Ambient, 1in ² copper pad area, Max.	52	°C/W

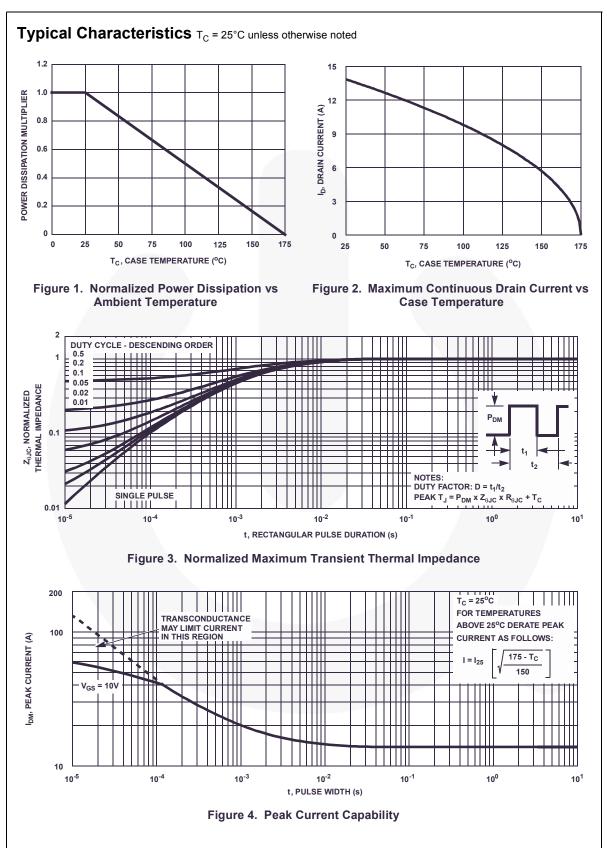
Package Marking and Ordering Information

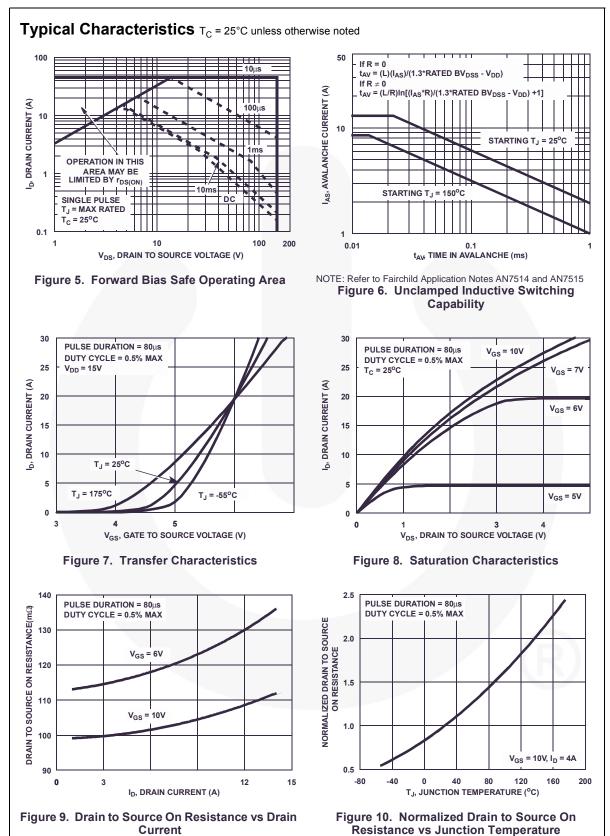
Device Marking	Device	Package	Reel Size	Tape Width	Quantity
FDD120AN15A0	FDD120AN15A0	D-PAK	330 mm	16 mm	2500 units

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

Symbol	Parameter	Test Conditions		Min	Тур	Max	Unit
Off Char	acteristics						
B _{VDSS}	Drain to Source Breakdown Voltage	$I_D = 250 \mu A, V_{GS} = 0$)V	150	-	-	V
	7 0 1 1/1 5 1 0 1	V _{DS} = 120V		-	-	1	
I _{DSS}	Zero Gate Voltage Drain Current	$V_{GS} = 0V$ T_{C}	c = 150°C	-	-	250	μΑ
I _{GSS}	Gate to Source Leakage Current	V _{GS} = ±20V		-	-	±100	nA
On Chara	acteristics						
V _{GS(TH)}	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}, I_{D} = 250$)μA	2	-	4	V
		$I_{D} = 4A, V_{GS} = 10V$		-	0.101	0.120	
	Drain to Course On Desistance	$I_D = 2A, V_{GS} = 6V$		-	0.113	0.170	0
r _{DS(ON)}	Drain to Source On Resistance	$I_D = 4A, V_{GS} = 10V,$ $T_J = 175^{\circ}C$	= 10V	0.235	0.282	Ω	
Dynamic	Characteristics						
C _{ISS}	Input Capacitance	1		- \	770	-	pF
C _{OSS}	Output Capacitance	$V_{DS} = 25V, V_{GS} = 0V,$ f = 1MHz		- \	85	-	pF
C _{RSS}	Reverse Transfer Capacitance			-	17	-	pF
Q _{g(TOT)}	Total Gate Charge at 10V	V _{GS} = 0V to 10V			11.2	14.5	nC
$Q_{g(TH)}$	Threshold Gate Charge	$V_{GS} = 0V \text{ to } 2V$	op = 75V	-	1.4	1.8	nC
Q _{gs}	Gate to Source Gate Charge	I _D = 4A I _g = 1.0mA		-	3.5	-	nC
Q _{gs2}	Gate Charge Threshold to Plateau			-	2.1	-	nC
Q _{gd}	Gate to Drain "Miller" Charge			-	2.6	-	nC
	g Characteristics (V _{GS} = 10V)				•		
t _{ON}	Turn-On Time			-	-	33	ns
t _{d(ON)}	Turn-On Delay Time	7		/-	6	- ,/-	ns
t _r	Rise Time	$V_{DD} = 75V, I_{D} = 4A$		-	16	-	ns
t _{d(OFF)}	Turn-Off Delay Time	$V_{GS} = 10V, R_{GS} = 2$	24Ω	-	30	/-	ns
t _f	Fall Time			-	19	/ -	ns
	Turn-Off Time			-	- //	74	ns
t _{OFF}	Turri-Ori Tilrie						
	ource Diode Characteristics		'				
	ource Diode Characteristics	I _{SD} = 4A		-	-	1.25	V
		$I_{SD} = 4A$ $I_{SD} = 2A$		-	-	1.25	
Drain-So	ource Diode Characteristics		100A/μs				V

- Notes: 1: Starting $T_J = 25^{\circ}C$, L = 27mH, $I_{AS} = 3A$. 2: Pulse width = 100s.





Typical Characteristics T_C = 25°C unless otherwise noted

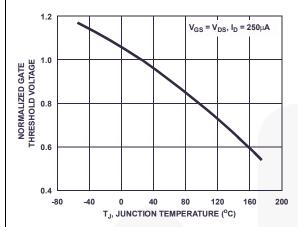


Figure 11. Normalized Gate Threshold Voltage vs Junction Temperature

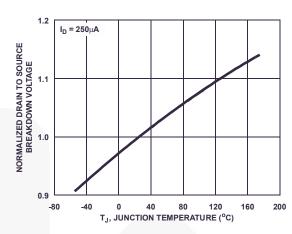


Figure 12. Normalized Drain to Source Breakdown Voltage vs Junction Temperature

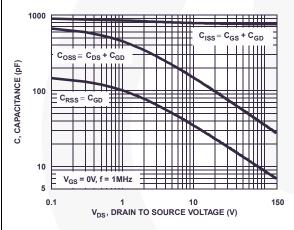


Figure 13. Capacitance vs Drain to Source Voltage

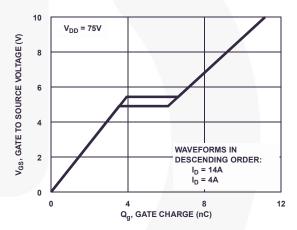


Figure 14. Gate Charge Waveforms for Constant Gate Currents

Test Circuits and Waveforms

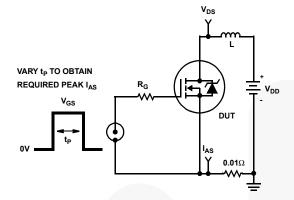


Figure 15. Unclamped Energy Test Circuit

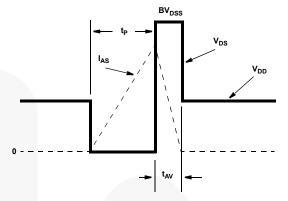


Figure 16. Unclamped Energy Waveforms

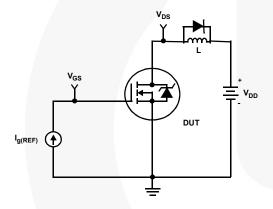


Figure 17. Gate Charge Test Circuit

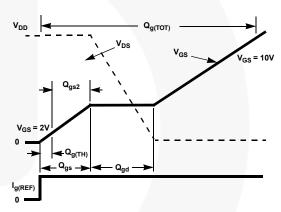


Figure 18. Gate Charge Waveforms

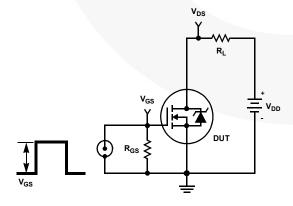


Figure 19. Switching Time Test Circuit

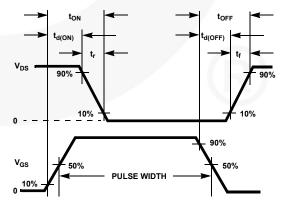


Figure 20. Switching Time Waveforms

Thermal Resistance vs. Mounting Pad Area

The maximum rated junction temperature, T_{JM} , and the thermal resistance of the heat dissipating path determines the maximum allowable device power dissipation, P_{DM} , in an application. Therefore the application's ambient temperature, T_A (°C), and thermal resistance $R_{\theta JA}$ (°C/W) must be reviewed to ensure that T_{JM} is never exceeded. Equation 1 mathematically represents the relationship and serves as the basis for establishing the rating of the part.

$$P_{DM} = \frac{(T_{JM} - T_A)}{R_{\theta JA}} \tag{EQ. 1}$$

In using surface mount devices such as the TO-252 package, the environment in which it is applied will have a significant influence on the part's current and maximum power dissipation ratings. Precise determination of P_{DM} is complex and influenced by many factors:

- Mounting pad area onto which the device is attached and whether there is copper on one side or both sides of the board.
- The number of copper layers and the thickness of the board.
- 3. The use of external heat sinks.
- 4. The use of thermal vias.
- 5. Air flow and board orientation.
- 6. For non steady state applications, the pulse width, the duty cycle and the transient thermal response of the part, the board and the environment they are in.

Fairchild provides thermal information to assist the designer's preliminary application evaluation. Figure 21 defines the $R_{\theta JA}$ for the device as a function of the top copper (component side) area. This is for a horizontally positioned FR-4 board with 1oz copper after 1000 seconds of steady state power with no air flow. This graph provides the necessary information for calculation of the steady state junction temperature or power dissipation. Pulse applications can be evaluated using the Fairchild device Spice thermal model or manually utilizing the normalized maximum transient thermal impedance curve.

Thermal resistances corresponding to other copper areas can be obtained from Figure 21 or by calculation using Equation 2 or 3. Equation 2 is used for copper area defined in inches square and equation 3 is for area in centimeters square. The area, in square inches or square centimeters is the top copper area including the gate and source pads.

$$R_{\theta JA} = 33.32 + \frac{23.84}{(0.268 + Area)}$$
 (EQ. 2)

Area in Inches Squared

$$R_{\theta JA} = 33.32 + \frac{154}{(1.73 + Area)}$$
 (EQ. 3)

Area in Centimeters Squared

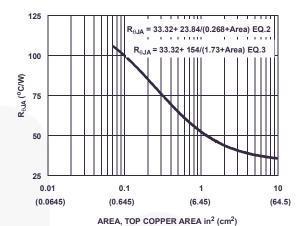
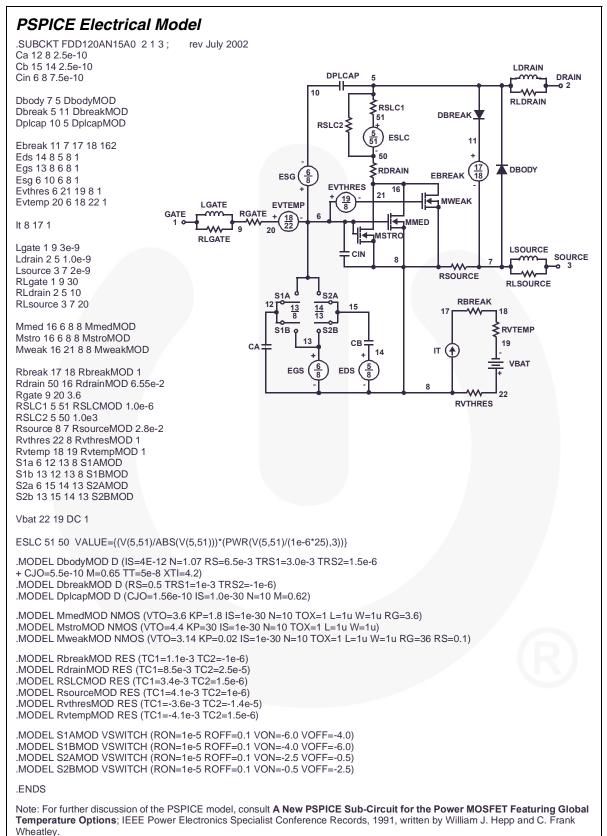


Figure 21. Thermal Resistance vs Mounting Pad Area



SABER Electrical Model REV July 2002 template FDD120AN15A0 n2,n1,n3 electrical n2,n1,n3 var i iscl dp..model dbodymod = (isl=4e-12,nl=1.07,rs=6.5e-3,trs1=3.0e-3,trs2=1.5e-6,cjo=5.5e-10,m=0.65,tt=5e-8,xti=4.2) dp..model dbreakmod = (rs=0.5,trs1=1e-3,trs2=-1e-6) dp..model dplcapmod = (cjo=1.56e-10,isl=10.0e-30,nl=10,m=0.62) m..model mmedmod = (type=_n,vto=3.6,kp=1.8,is=1e-30, tox=1) $m..model mstrongmod = (type=_n, vto=4.4, kp=30, is=1e-30, tox=1)$ m..model mweakmod = (type=_n,vto=3.14,kp=0.02,is=1e-30, tox=1,rs=0.1) LDRAIN sw_vcsp..model s1amod = (ron=1e-5,roff=0.1,von=-6.0,voff=-4.0) DPLCAP m DRAIN sw_vcsp..model s1bmod = (ron=1e-5,roff=0.1,von=-4.0,voff=-6.0) sw_vcsp..model s2amod = (ron=1e-5,roff=0.1,von=-2.5,voff=-0.5) sw_vcsp..model s2bmod = (ron=1e-5,roff=0.1,von=-0.5,voff=-2.5) 10 RLDRAIN RSLC1 c.ca n12 n8 = 2.5e-10RSLC2 ₹ c.cb n15 n14 = 2.5e-10 ISCL c.cin n6 n8 = 7.5e-10DBREAK . 50 dp.dbody n7 n5 = model=dbodymod **≨**RDRAIN dp.dbreak n5 n11 = model=dbreakmod **ESG** 11 DBODY dp.dplcap n10 n5 = model=dplcapmod **EVTHRES** 21 19 8 MWEAK EVTEME LGATE spe.ebreak n11 n7 n17 n18 = 162 GATE RGATE MMED **EBREAM** spe.eds n14 n8 n5 n8 = 1 9 20 spe.egs n13 n8 n6 n8 = 1 RLGATE spe.esq n6 n10 n6 n8 = 1 LSOURCE CIN spe.evthres n6 n21 n19 n8 = 1 SOURCE spe.evtemp n20 n6 n18 n22 = 1 RSOURCE RLSOURCE i.it n8 n17 = 1RBREAK 17 I.lgate n1 n9 = 3e-9I.ldrain n2 n5 = 1.0e-9**₹**RVTEMP I.Isource n3 n7 = 2e-9CB 19 IT res rigate n1 n9 = 30VBAT EGS res rldrain n2 n5 = 10**EDS** res.rlsource n3 n7 = 20 **RVTHRES** m.mmed n16 n6 n8 n8 = model=mmedmod, l=1u, w=1u m.mstrong n16 n6 n8 n8 = model=mstrongmod, l=1u, w=1u m.mweak n16 n21 n8 n8 = model=mweakmod, l=1u, w=1u res.rbreak n17 n18 = 1, tc1=1.1e-3,tc2=-1e-6 res.rdrain n50 n16 = 6.55e-2, tc1=8.5e-3,tc2=2.5e-5 res.rgate n9 n20 = 3.6res.rslc1 n5 n51 = 1.0e-6, tc1=3.4e-3,tc2=1.5e-6 res.rslc2 n5 n50 = 1.0e3res.rsource n8 n7 = 2.8e-2, tc1=4.1e-3,tc2=1e-6 res.rvthres n22 n8 = 1, tc1=-3.6e-3,tc2=-1.4e-5 res.rvtemp n18 n19 = 1, tc1=-4.1e-3,tc2=1.5e-6 sw_vcsp.s1a n6 n12 n13 n8 = model=s1amod sw_vcsp.s1b n13 n12 n13 n8 = model=s1bmod sw_vcsp.s2a n6 n15 n14 n13 = model=s2amod sw_vcsp.s2b n13 n15 n14 n13 = model=s2bmod v.vbat n22 n19 = dc=1 equations { i (n51->n50) +=iscl iscl: v(n51,n50) = ((v(n5,n51)/(1e-9+abs(v(n5,n51))))*((abs(v(n5,n51)*1e6/25))**3))

SPICE Thermal Model JUNCTION th REV 23 July 2002 FDD120AN15A0T CTHERM1 TH 6 1.2e-3 CTHERM2 6 5 2e-3 CTHERM3 5 4 2.5e-3 RTHERM1 CTHERM1 CTHERM4 4 3 3.15e-3 CTHERM5 3 2 3.3e-3 CTHERM6 2 TL 1.35e-2 RTHERM1 TH 6 6.8e-2 RTHERM2 6 5 1.18e-1 RTHERM3 5 4 2.28e-1 RTHERM2 CTHERM2 RTHERM4 4 3 3.28e-1 RTHERM5 3 2 5.28e-1 RTHERM6 2 TL 5.78e-1 SABER Thermal Model RTHERM3 CTHERM3 SABER thermal model FDD120AN15A0T template thermal_model th tl thermal_c th, tl ctherm.ctherm1 th 6 =1.2e-3 ctherm.ctherm2 6 5 =2e-3 ctherm.ctherm3 5 4 = 2.5e-3 ctherm.ctherm4 4 3 =3.15e-3 RTHERM4 CTHERM4 ctherm.ctherm5 3 2 =3.3e-3 ctherm.ctherm6 2 tl =1.35e-2 rtherm.rtherm1 th 6 =6.8e-2 rtherm.rtherm2 6 5 =1.18e-1 rtherm.rtherm3 5 4 = 2.28e-1 RTHERM5 CTHERM5 rtherm.rtherm4 4 3 =3.28e-1 rtherm.rtherm5 3 2 =5.28e-1 rtherm.rtherm6 2 tl =5.78e-1 2 RTHERM6 CTHERM6 CASE

Mechanical Dimensions

TO-252 3L (DPAK)

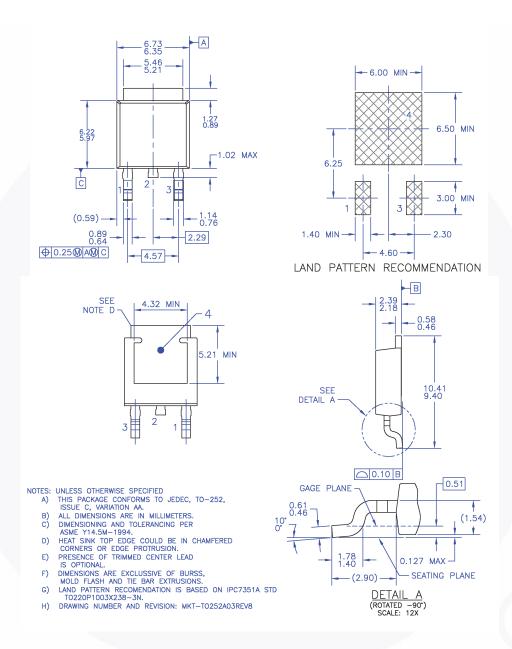


Figure 21. TO252 (D-PAK), Molded, 3 Lead, Option AA&AB

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Dimension in Millimeters





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