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November 2013

FDD16AN08A0

N-Channel PowerTrench[®] MOSFET 75 V, 50 A, 16 m Ω

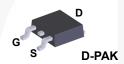
Features

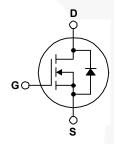
- R $_{DS(on)}$ = 13 m Ω (Typ.) @ V $_{GS}$ = 10 V, I $_{D}$ = 50 A
- $Q_{G(tot)} = 31 \text{ nC}$ (Typ.) @ $V_{GS} = 10 \text{ V}$
- · Low Miller Charge
- Low Q_{rr} Body Diode
- UIS Capability (Single Pulse and Repetitive Pulse)

Formerly developmental type 82660

Applications

- · Synchronous Rectification
- · Battery Protection Circuit
- · Motor drives and Uninterruptible Power Supplies





MOSFET Maximum Ratings T_C = 25°C unless otherwise noted

Symbol	Parameter	FDD16AN08A0	Unit
V_{DSS}	Drain to Source Voltage	75	V
V_{GS}	Gate to Source Voltage	±20	V
	Drain Current		
1	Continuous (T _C < 79°C, V _{GS} = 10V)	50	Α
I D	Continuous ($T{amb} = 25^{\circ}C$, $V_{GS} = 10V$, with $R_{\theta JA} = 52^{\circ}C/W$)	9	Α
	Pulsed	Figure 4	А
E _{AS}	Single Pulse Avalanche Energy (Note 1)	95	mJ
	Power dissipation	135	W
P_{D}	Derate above 25°C	0.9	W/°C
T _J , T _{STG}	Operating and Storage Temperature	-55 to 175	°C

Thermal Characteristics

$R_{\theta JC}$	Thermal Resistance, Junction to Case, Max.	1.11	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, Max.	100	°C/W
$R_{\theta JA}$	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
FDD16AN08A0	FDD16AN08A0	D-PAK	330 mm	16 mm	2500 units

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

Symbol	Parameter	Test Co	nditions	Min	Тур	Max	Unit
Off Characteristics							
B _{VDSS}	Drain to Source Breakdown Voltage	$I_D = 250 \mu A, V_G$	S = 0V	75	-	-	V
1	Zoro Coto Voltago Drain Current	V _{DS} = 60V		-	-	1	μА
DSS	Zero Gate Voltage Drain Current	$V_{GS} = 0V$	$T_{\rm C} = 150^{\rm o}{\rm C}$	-	-	250	μΑ
I _{GSS}	Gate to Source Leakage Current	$V_{GS} = \pm 20V$		-	-	±100	nA

On Characteristics

V _{GS(TH)}	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}$, $I_D = 250\mu A$	2	-	4	V
r _{DS(ON)} Drain to Source On Resistance		I _D = 50A, V _{GS} = 10V	-	0.013	0.016	
		I _D = 25A, V _{GS} = 6V	-	0.019	0.029	0
	$I_D = 50A, V_{GS} = 10V,$ $T_J = 175$ °C	-	0.032	0.037	22	

Dynamic Characteristics

C _{ISS}	Input Capacitance	., - 25)/)/ - 0)/	-	1874	-	pF
C _{OSS}	Output Capacitance	V _{DS} = 25V, V _{GS} = 0V, f = 1MHz	-	290	-	pF
C _{RSS}	Reverse Transfer Capacitance	1101112	-	91	-	pF
$Q_{g(TOT)}$	Total Gate Charge at 10V	V _{GS} = 0V to 10V		31	47	nC
$Q_{g(TH)}$	Threshold Gate Charge	$V_{GS} = 0V \text{ to } 2V$ $V_{DD} = 40V$	-	4	6	nC
Q_{gs}	Gate to Source Gate Charge	I _D = 50A	-	9.7	-	nC
Q _{gs2}	Gate Charge Threshold to Plateau	I _g = 1.0mA	-	5.7	-	nC
Q_{gd}	Gate to Drain "Miller" Charge		-	7.2	-	nC

Switching Characteristics $(V_{GS} = 10V)$

t _{ON}	Turn-On Time		-/	-	93	ns
t _{d(ON)}	Turn-On Delay Time		-	8	-	ns
t _r	Rise Time	V _{DD} = 40V, I _D = 50A	-	54	-	ns
t _{d(OFF)}	Turn-Off Delay Time	V_{GS} = 10V, R_{GS} = 10 Ω	-	32	-	ns
t _f	Fall Time		-	22	-	ns
t _{OFF}	Turn-Off Time		-	-	81	ns

Drain-Source Diode Characteristics

V_{SD}	Source to Drain Diode Voltage	I _{SD} = 50A	-	-	1.25	V
	Source to Drain Diode voltage	I _{SD} = 25A	-	-	1.0	V
t _{rr}	Reverse Recovery Time	$I_{SD} = 50A$, $dI_{SD}/dt = 100A/\mu s$	-	-	34	ns
Q _{RR}	Reverse Recovered Charge	$I_{SD} = 50A$, $dI_{SD}/dt = 100A/\mu s$	-	-	31	nC

Notes: 1: Starting $T_J = 25^{\circ}C$, $L = 155\mu H$, $I_{AS} = 35A$.

175

150

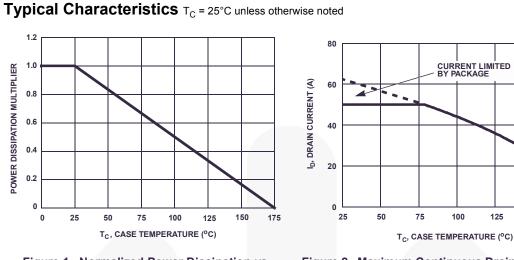


Figure 1. Normalized Power Dissipation vs Ambient Temperature

Figure 2. Maximum Continuous Drain Current vs Case Temperature

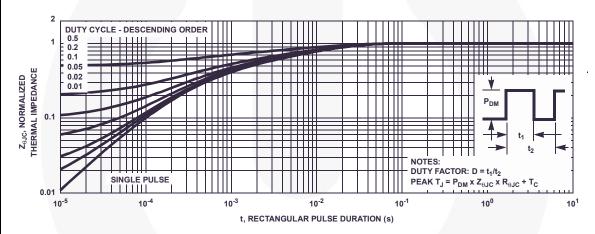


Figure 3. Normalized Maximum Transient Thermal Impedance

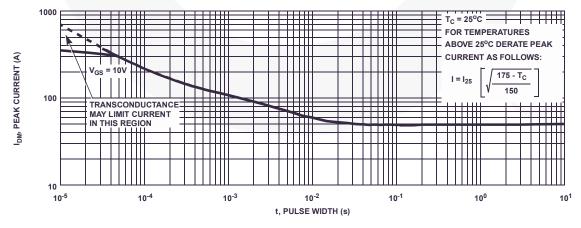
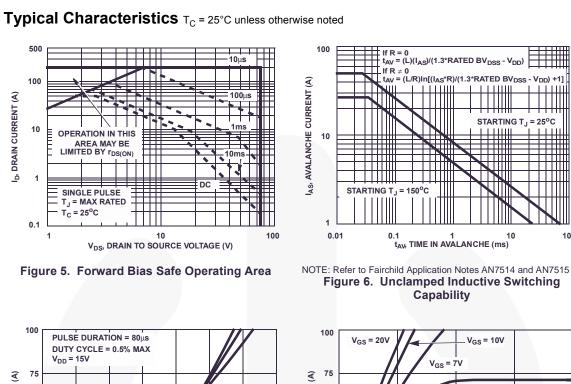
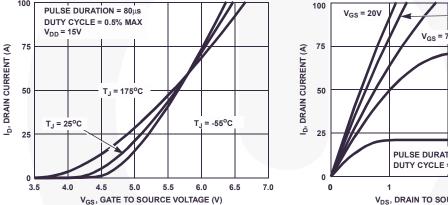
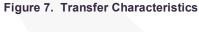


Figure 4. Peak Current Capability

100







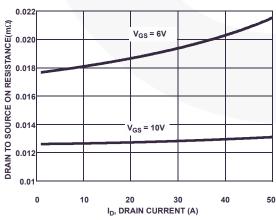
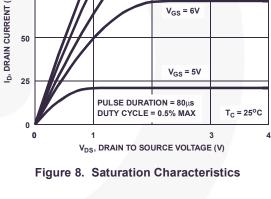


Figure 9. Drain to Source On Resistance vs Drain Current



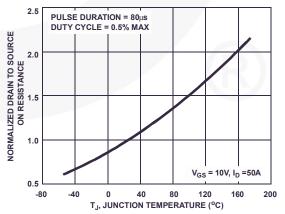


Figure 10. Normalized Drain to Source On **Resistance vs Junction Temperature**

Typical Characteristics T_C = 25°C unless otherwise noted

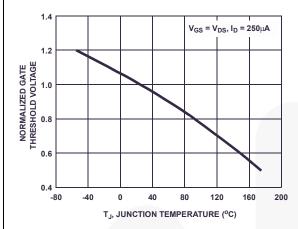


Figure 11. Normalized Gate Threshold Voltage vs Junction Temperature

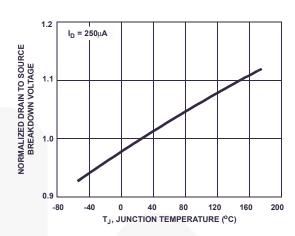


Figure 12. Normalized Drain to Source Breakdown Voltage vs Junction Temperature

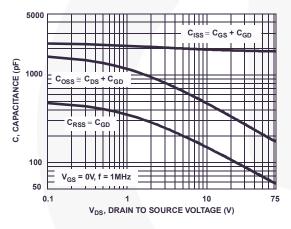


Figure 13. Capacitance vs Drain to Source Voltage

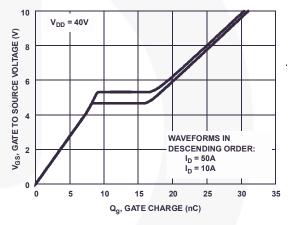


Figure 14. Gate Charge Waveforms for Constant Gate Current

Test Circuits and Waveforms

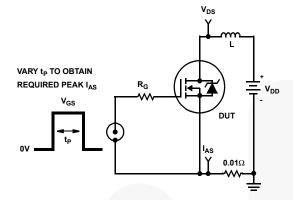


Figure 15. Unclamped Energy Test Circuit

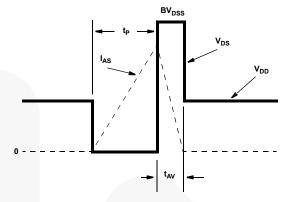


Figure 16. Unclamped Energy Waveforms

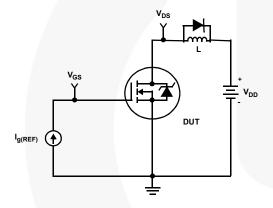


Figure 17. Gate Charge Test Circuit

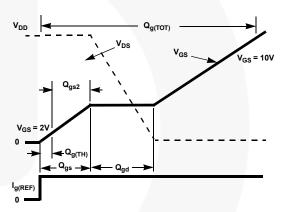


Figure 18. Gate Charge Waveforms

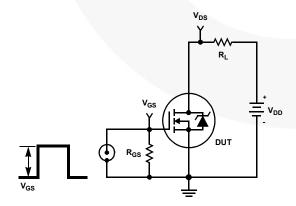


Figure 19. Switching Time Test Circuit

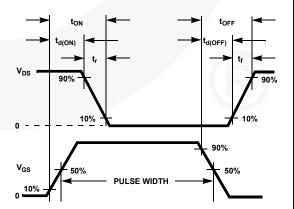


Figure 20. Switching Time Waveforms

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

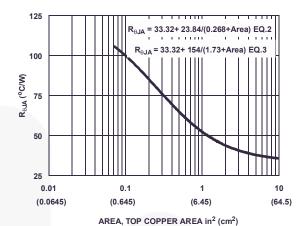
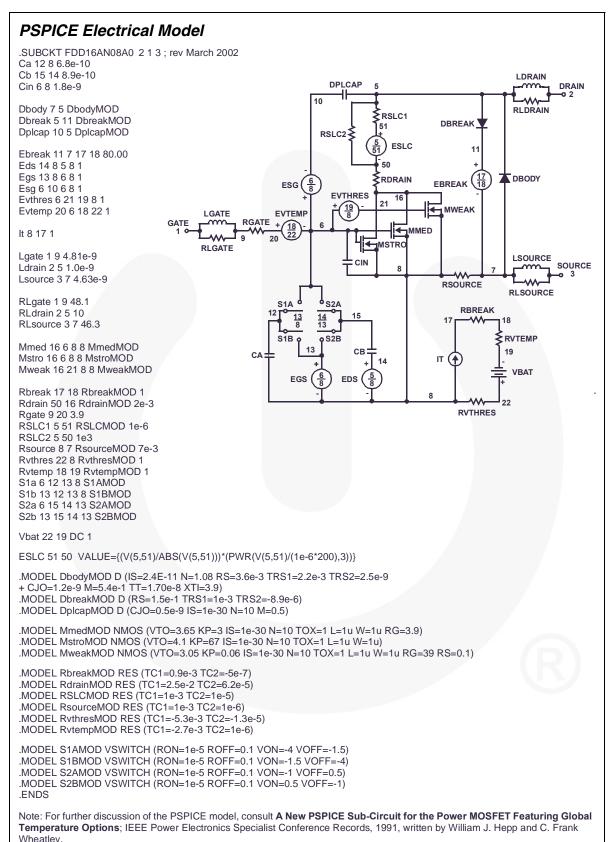


Figure 21. Thermal Resistance vs Mounting Pad Area



SABER Electrical Model rev March 2002 template FDD16AN08A0 n2,n1,n3 electrical n2,n1,n3 var i iscl dp..model dbodymod = (isl=2.4e-11,nl=1.08,rs=3.6e-3,trs1=2.2e-3,trs2=2.5e-9,cjo=1.2e-9,m=5.4e-1,tt=1.70e-8,xti=3.9) dp..model dbreakmod = (rs=1.5e-1,trs1=1e-3,trs2=-8.9e-6) dp..model dplcapmod = (cjo=0.5e-9,isl=10e-30,nl=10,m=0.5) m..model mmedmod = $(type=_n, vto=3.65, kp=3, is=1e-30, tox=1)$ m..model mstrongmod = (type=_n,vto=4.1,kp=67,is=1e-30, tox=1) $m..model \ mweakmod = (type=_n, vto=3.05, kp=0.06, is=1e-30, tox=1, rs=0.1)$ IDRAIN sw_vcsp..model s1amod = (ron=1e-5,roff=0.1,von=-4,voff=-1.5) **DPLCAP** DRAIN sw_vcsp..model s1bmod = (ron=1e-5,roff=0.1,von=-1.5,voff=-4) 10 sw_vcsp..model s2amod = (ron=1e-5,roff=0.1,von=-1,voff=0.5) RLDRAIN sw_vcsp..model s2bmod = (ron=1e-5,roff=0.1,von=0.5,voff=-1) ≸RSLC1 c.ca n12 n8 = 6.8e-1051 RSLC2 ₹ c.cb n15 n14 = 8.9e-10ISCL c.cin n6 n8 = 1.8e-9**DBREAK** 50 dp.dbody n7 n5 = model=dbodymod RDRAIN dp.dbreak n5 n11 = model=dbreakmod 8 **ESG** dp.dplcap n10 n5 = model=dplcapmod DBODY **EVTHRES** 21 MWFAK spe.ebreak n11 n7 n17 n18 = 80.00 _{GATE} LGATE EVTEMP **RGATE** MMED EBREAK spe.eds n14 n8 n5 n8 = 1 Ιg 20 spe.egs n13 n8 n6 n8 = 1 MSTR RLGATE spe.esg n6 n10 n6 n8 = 1 **LSOURCE** spe.evthres n6 n21 n19 n8 = 1 CIN SOURCE spe.evtemp n20 n6 n18 n22 = 1 RSOURCE RLSOURCE i.it n8 n17 = 1RBREAK I.lgate n1 n9 = 4.81e-917 I.Idrain n2 n5 = 1.0e-9RVTEMP I.lsource n3 n7 = 4.63e-9CR 19 CA IT 14 res.rlgate n1 n9 = 48.1 VRAT res.rldrain n2 n5 = 10 **EGS** FDS res.rlsource n3 n7 = 46.3 m.mmed n16 n6 n8 n8 = model=mmedmod, l=1u, w=1u **RVTHRES** 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=0.9e-3,tc2=-5e-7 res.rdrain n50 n16 = 2e-3, tc1=2.5e-2,tc2=6.2e-5 res.rgate n9 n20 = 3.9 res.rslc1 n5 n51 = 1e-6, tc1=1e-3,tc2=1e-5 res.rslc2 n5 n50 = 1e3 res.rsource n8 n7 = 7e-3, tc1=1e-3,tc2=1e-6 res.rvthres n22 n8 = 1, tc1=-5.3e-3,tc2=-1.3e-5 res.rvtemp n18 n19 = 1, tc1=-2.7e-3,tc2=1e-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)*1e6/200))**3))

SPICE Thermal Model JUNCTION th **REV 23 March 2002** FDD16AN08A0T CTHERM1 th 6 0.002 CTHERM2 6 5 0.004 CTHERM3 5 4 0.006 RTHERM1 CTHERM1 CTHERM4 4 3 0.01 CTHERM5 3 2 0.03 CTHERM6 2 tl 0.08 RTHERM1 th 6 0.075 RTHERM2 6 5 0.09 RTHERM3 5 4 0.1 RTHERM2 CTHERM2 RTHERM4 4 3 0.15 RTHERM5 3 2 0.2 RTHERM6 2 tl 0.25 SABER Thermal Model SABER thermal model FDD16AN08A0T RTHERM3 CTHERM3 template thermal_model th tl thermal_c th, tl ctherm.ctherm1 th 6 = 0.002ctherm.ctherm2 6 5 = 0.004ctherm.ctherm3 5 4 = 0.006ctherm.ctherm4 43 = 0.01ctherm.ctherm5 3 2 = 0.03RTHERM4 CTHERM4 ctherm.ctherm6 2 tl = 0.08 rtherm.rtherm1 th 6 = 0.075rtherm.rtherm2 6 5 = 0.09rtherm.rtherm354 = 0.1rtherm.rtherm4 4 3 = 0.15rtherm.rtherm5 3 2 = 0.2RTHERM5 CTHERM5 rtherm.rtherm6 2 tl = 0.25 RTHERM6 CTHERM6 CASE

Mechanical Dimensions

TO-252 3L (DPAK)

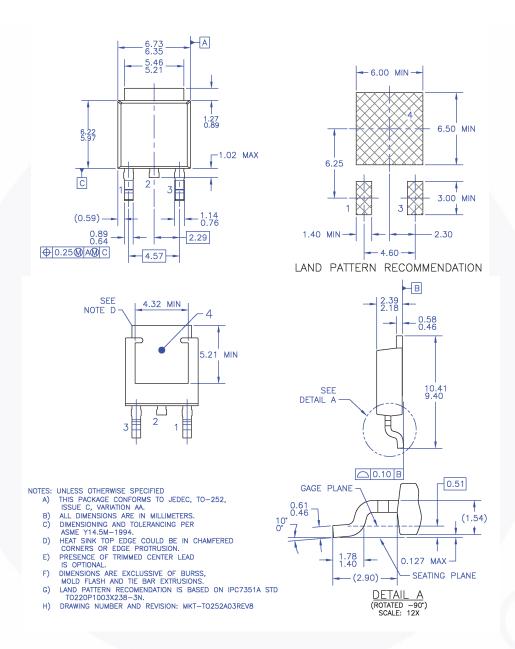


Figure 21. TO252 (D-PAK), Molded, 3 Lead, Option AA&AB

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Dimension in Millimeters





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MicroFET™

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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.
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