

MOSFET - N-Channel, POWERTRENCH®

75 V, 80 A, 4.7 m Ω

FDH047AN08A0, FDP047AN08A0

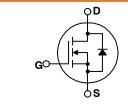
Features

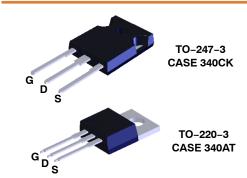
- $R_{DS(ON)} = 4.0 \text{ m}\Omega$ (Typ.), $V_{GS} = 10 \text{ V}$, $I_D = 80 \text{ A}$
- $Q_{g(TOT)} = 92 \text{ nC (Typ.)}, V_{GS} = 10 \text{ V}$
- Low Miller Charge
- Low Q_{rr} Body Diode
- UIS Capability (Single Pulse and Repetitive Pulse)
- This Device is Pb-Free and is RoHS Compliant

Applications

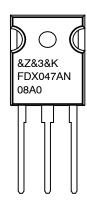
- Synchronous Rectification for ATX / Server / Telecom PSU
- Battery Protection Circuit
- Motor Drives and Uninterruptible Power Supplies

V _{DSS}	R _{DS(ON)} MAX	I _D MAX	
75 V	4.7 m Ω	80 A	





MARKING DIAGRAM



&Z = Assembly Plant Code &3 = Data Code (Year & Week) &K = Lot FDX047AN08A0 = Specific Device Code

X = H/P

ORDERING INFORMATION

See detailed ordering and shipping information on page 2 of this data sheet.

MOSFET MAXIMUM RATINGS (T_C = 25°C, Unless otherwise noted)

Symbol	Parameter		Value	Unit
V_{DSS}	Drain to Source Voltage	Drain to Source Voltage		V
V_{GS}	Gate to Source Voltage	Gate to Source Voltage		V
Ι _D	Drain Current	- Continuous (T _C < 144°C, V _{GS} = 10 V)	80	Α
		– Continuous (T_C = 25°C, V_{GS} = 10 V, $R_{\theta JA}$ = [6° 2°C/W)	15	
I _D	Drain Current	- Pulsed	Figure 4	Α
E _{AS}	Single Pulse Avalanche Energy (Note 1)		475	mJ
P_{D}	Power Dissipation		310	W
	Derate Above 25°C		2.0	W/°C
T _J , T _{STG}	Operating and Storage Temperature Range		-55 to +175	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected. 1. Starting $T_J = 25^{\circ}C$, L = 0.232 mH, $I_{AS} = 64$ A.

THERMAL CHARACTERISTICS

Symbol	Parameter	Value	Unit
$R_{ hetaJC}$	Thermal Resistance, Junction to Case, Max. TO-220, TO-247	0.48	°C/W
$R_{ hetaJA}$	Thermal Resistance, Junction to Ambient, Max. TO-220 (Note 2)	62	°C/W
$R_{ heta JA}$	Thermal Resistance, Junction to Ambient, Max. TO-247 (Note 2)	30	°C/W

^{2.} Pulse Width = 100 s.

PACKAGE MARKING AND ORDERING INFORMATION

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
FDH047AN08A0	FDH047AN08A0	TO-247	Tube	N/A	30 Units
FDP047AN08A0	FDP047AN08A0	TO-220	Tube	N/A	50 Units

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
OFF CHARAC	TERISTICS		•			
B _{VDSS}	Drain to Source Breakdown Voltage	I _D = 250 μA, V _{GS} = 0 V	75	_	-	V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60 V, V _{GS} = 0 V	_	-	1	μΑ
		V _{DS} = 60 V, V _{GS} = 0 V, T _C = 150°C	_	-	250	
I _{GSS}	Gate to Source Leakage Current	V _{GS} = ±20 V	_	-	±100	nA
N CHARACT	ERISTICS				1	
V _{GS(TH)}	Gate to Source Threshold Voltage	V _{GS} = V _{DS} , I _D = 250 μA	2.0	-	4.0	V
R _{DS(ON)}	Drain to Source On Resistance	I _D = 80 A, V _{GS} = 10 V	_	0.0040	0.0047	Ω
		I _D = 37 V, V _{GS} = 6 V	_	0.0058	0.0087	
		I _D = 80 A, V _{GS} = 10 V, T _i = 175 °C	_	0.0082	0.011	
YNAMIC CHA	ARACTERISTICS	•			1	
C _{ISS}	Input Capacitance	V _{DS} = 25 V, V _{GS} = 0 V, f = 1 MHz	_	6600	_	pF
C _{OSS}	Output Capacitance	7	_	1000	_	pF
C _{RSS}	Reverse Transfer Capacitance	7	_	240	_	pF
Q _{g(TOT)}	Total Gate Charge at 10 V	V _{GS} = 0 V to 10 V, V _{DD} = 40 V, I _D = 80 A, I _g = 1.0 mA	-	92	138	nC
$Q_{g(TH)}$	Threshold Gate Charge	V _{GS} = 0 V to 2 V, V _{DD} = 40 V, I _D = 80 A, I _g = 1.0 mA	-	11	17	nC
Q _{gs}	Gate to Source Gate Charge	V _{DD} = 40 V, I _D = 80 A, I _g = 1.0 mA	_	27	-	nC
Q _{gs2}	Gate Charge Threshold to Plateau	7	_	16	-	nC
Q _{gd}	Gate to Drain "Miller" Charge	7	-	21	_	nC
WITCHING C	HARACTERISTICS (V _{GS} = 10 V)		•			
t _{ON}	Turn-On Time	V _{DD} = 40 V, I _D = 80 A,	_	_	160	ns
t _{d(ON)}	Turn-On Delay Time	$V_{\rm GS}$ = 10 V, $R_{\rm GS}$ = 3.3 Ω	_	18	-	ns
t _r	Rise Time	7	_	88	-	ns
t _{d(OFF)}	Turn-Off Delay Time	7	_	40	_	ns
t _f	Fall Time	7	_	45	_	ns
t _{OFF}	Turn-Off Time	7	_	-	128	ns
RAIN-SOUR	CE DIODE CHARACTERISTICS		•	•		
V _{SD}	Source to Drain Diode Voltage	I _{SD} = 80 A	_	-	1.25	V
		I _{SD} = 40 A	_	-	1	V
t _{rr}	Reverse Recovery Time	$I_{SD} = 75 \text{ A}, dI_{SD}/dt = 100 \text{ A}/\mu\text{s}$	_	-	53	ns
Q _{RR}	Reverse Recovered Charge	I _{SD} = 75 A, dI _{SD} /dt = 100 A/μs	_	_	54	nC

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

TYPICAL CHARACTERISTICS

(T_C = 25°C UNLESS OTHERWISE NOTED)

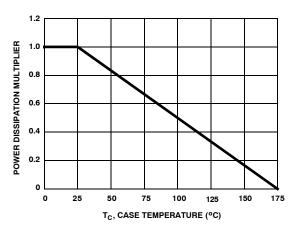


Figure 1. Normalized Power Dissipation vs. Case Temperature

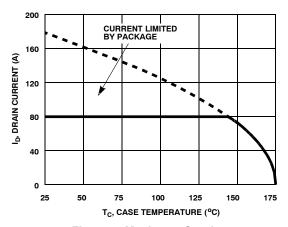


Figure 2. Maximum Continuous Drain Current vs. Case Temperature

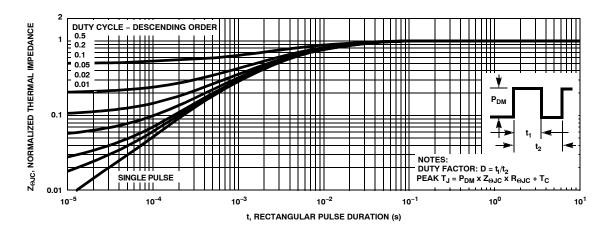


Figure 3. Normalized Maximum Transient Thermal Impedance

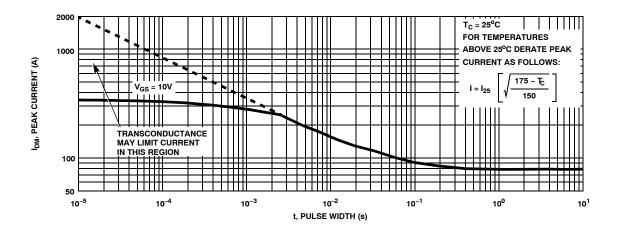


Figure 4. Peak Current Capability

TYPICAL CHARACTERISTICS (CONTINUED)

(T_C = 25°C UNLESS OTHERWISE NOTED)

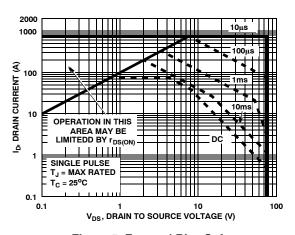


Figure 5. Forward Bias Safe Operating Area

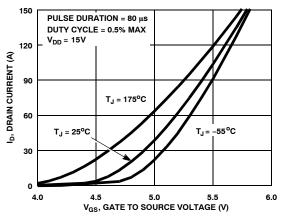


Figure 7. Transfer Characteristics

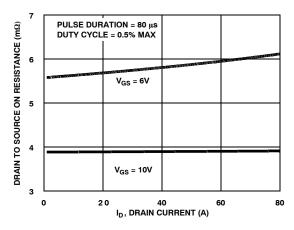


Figure 9. Drain to Source On Resistance vs. Drain Current



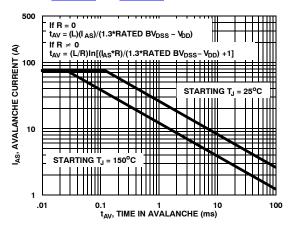


Figure 6. Unclamped Inductive Switching Capability

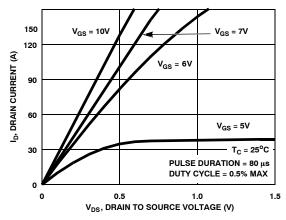


Figure 8. Saturation Characteristics

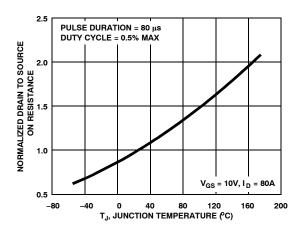


Figure 10. Normalized Drain to Source On Resistance vs. Junction Temperature

TYPICAL CHARACTERISTICS (CONTINUED)

(T_C = 25°C UNLESS OTHERWISE NOTED)

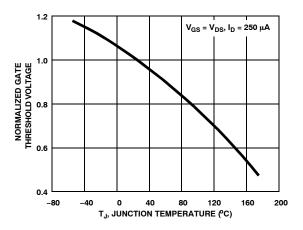


Figure 11. Normalized Gate Threshold Voltage vs. Junction Temperature

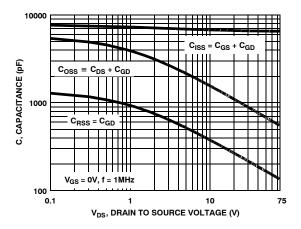


Figure 13. Capacitance vs. Drain to Source Voltage

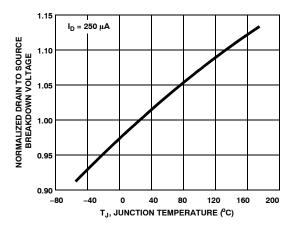


Figure 12. Normalized Drain to Source Breakdown Voltage vs Junction Temperature

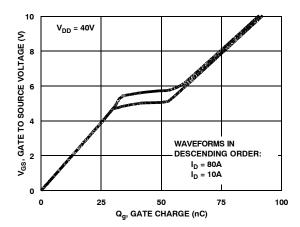


Figure 14. Gate Charge Waveforms for Constant Gate Currents

TEST CIRCUITS AND WAVEFORMS

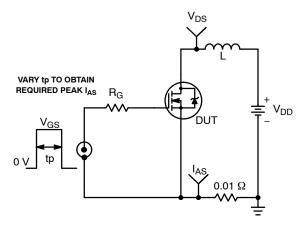


Figure 15. Unclamped Energy Test Circuit

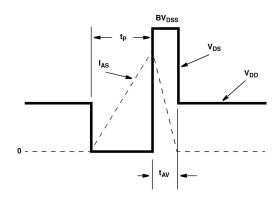


Figure 16. Unclamped Energy Waveforms

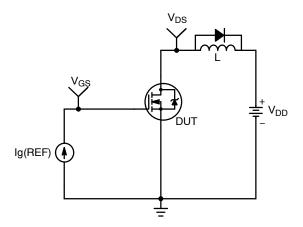


Figure 17. Gate Charge Test Circuit

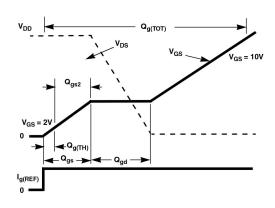


Figure 18. Gate Charge Waveforms

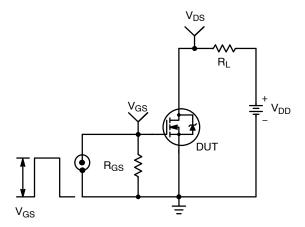


Figure 19. Switching Time Test Circuit

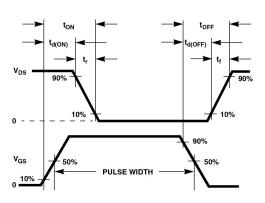


Figure 20. Switching Time Waveforms

PSPICE ELECTRICAL MODEL .SUBCKT FDP047AN08A0 2 1 3; rev March 2002 CA 12 8 1.5e-9 CB 15 14 1.5e-9 CIN 6 8 6.4e-9 **DBODY 75 DBODYMOD DBREAK 5 11 DBREAKMOD** DPLCAP 10 5 DPLCAPMOD EBREAK 11 7 17 18 82.3 EDS 148581 EGS 13 8 6 8 1 ESG 6 10 6 8 1 EVTHRES 6 21 19 8 1 EVTEMP 20 6 18 22 1 IT 8 17 1 LDRAIN 2 5 1e-9 LGATE 1 9 4.81e-9 LSOURCE 3 7 4.63e-9 MMED 16 6 8 8 MMEDMOD MSTRO 16 6 8 8 MSTROMOD MWEAK 16 21 8 8 MWEAKMOD RBREAK 17 18 RBREAKMOD 1 RDRAIN 50 16 RDRAINMOD 9e-4 RGATE 9 20 1.36 RLDRAIN 2510 **RLGATE 1948.1 RLSOURCE 3 7 46.3** RSLC1 5 51 RSLCMOD 1e-6 RSLC2 5 50 1e3 RSOURCE 8 7 RSOURCEMOD 2.3e-3 **RVTHRES 22 8 RVTHRESMOD 1** RVTEMP 18 19 RVTEMPMOD 1 S1A 6 12 13 8 S1AMOD S1B 13 12 13 8 S1BMOD S2A 6 15 14 13 S2AMOD S2B 13 15 14 13 S2BMOD VBAT 22 19 DC 1 ESLC 51 50 VALUE= $\{(V(5,51)/ABS(V(5,51)))*(PWR(V(5,51)/(1e-6*250),10))\}$

.MODEL DBODYMOD D (IS = 2.4e-11 N = 1.04 RS = 1.76e-3 TRS1 = 2.7e-3 TRS2 = 2e-7 XTI=3.9 CJO = 4.35e-9 TT = 1e-8 M = 5.4e-1)

.MODEL DBREAKMOD D (RS = 1.5e-1 TRS1 = 1e-3 TRS2 = -8.9e-6)

.MODEL DPLCAPMOD D (CJO = 1.35e-9 IS = 1e-30 N = 10 M = 0.53)

.MODEL MMEDMOD NMOS (VTO = 3.7 KP = 9 IS =1e-30 N = 10 TOX = 1 L = 1u W = 1u RG = 1.36)

.MODEL MSTROMOD NMOS (VTO = 4.4 KP = 250 IS = 1e - 30 N = 10 TOX = 1 L = 1u W = 1u)

.MODEL MWEAKMOD NMOS (VTO = 3.05 KP = 0.03 IS = 1e-30 N = 10 TOX = 1 L = 1u W = 1u RG = 1.36e1 RS = 0.1)

.MODEL RBREAKMOD RES (TC1 = 1.05e-3 TC2 = -9e-7)

.MODEL RDRAINMOD RES (TC1 = 1.9e-2 TC2 = 4e-5)

.MODEL RSLCMOD RES (TC1 = 1.3e-3 TC2 = 1e-5)

.MODEL RSOURCEMOD RES (TC1 = 1e-3 TC2 = 1e-6)

```
.MODEL RVTHRESMOD RES (TC1 = -6e-3 TC2 = -1.9e-5)
.MODEL RVTEMPMOD RES (TC1 = -2.4e-3 TC2 = 1e-6)
.MODEL S1AMOD VSWITCH (RON = 1e-5 ROFF = 0.1 VON = -4.0 VOFF= -1.5)
.MODEL S1BMOD VSWITCH (RON = 1e-5 ROFF = 0.1 VON = -1.5 VOFF= -4.0)
.MODEL S2AMOD VSWITCH (RON = 1e-5 ROFF = 0.1 VON = -1.0 VOFF= 0.5)
.MODEL S2BMOD VSWITCH (RON = 1e-5 ROFF = 0.1 VON = 0.5 VOFF= -1.0)
```

.ENDS

NOTE: For further discussion of the PSPICE model, consult <u>A New PSPICE Sub-Circuit for the Power MOSFET</u>

<u>Featuring Global Temperature Options</u>; IEEE Power Electronics Specialist Conference Records, 1991, written by William J. Hepp and C. Frank Wheatley.

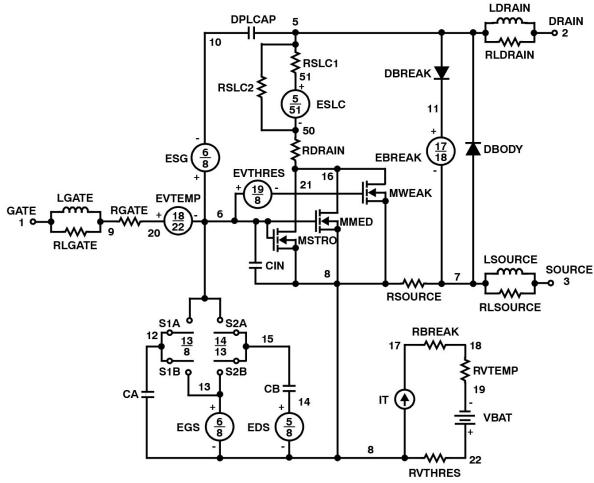


Figure 21. PSPICE Electrical Model

SABER ELECTRICAL MODEL

```
REV March 2002
template FDP047AN08A0 n2,n1,n3
electrical n2,n1,n3
var i iscl
dp..model dbodymod = (isl = 2.4e-11, n1 = 1.04, rs = 1.76e-3, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2.7e-3, trs2 = 2e-7, xti = 3.9, cjo = 4.35e-9, tt = 1e-8, trs1 = 2e-7, trs1 =
m = 5.4e - 1
dp..model dbreakmod = (rs = 1.5e-1, trs1 = 1e-3, trs2 = -8.9e-6)
dp..model dplcapmod = (cjo = 1.35e-9, isl = 10e-30, nl = 10, m = 0.53)
m..model mmedmod = (type=_n, vto = 3.7, kp = 9, is =1e-30, tox=1)
m..model mstrongmod = (type= n, vto = 4.4, kp = 250, is = 1e-30, tox = 1)
m..model mweakmod = (type=_n, vto = 3.05, kp = 0.03, is = 1e-30, tox = 1, rs=0.1)
sw vcsp..model s1amod = (ron = 1e-5, roff = 0.1, von = -4.0, voff = -1.5)
sw vcsp..model s1bmod = (ron = 1e-5, roff = 0.1, von = -1.5, voff = -4.0)
sw vcsp..model s2amod = (ron = 1e-5, roff = 0.1, von = -1.0, voff = 0.5)
sw vcsp..model s2bmod = (ron = 1e-5, roff = 0.1, von = 0.5, voff = -1.0)
c.ca n12 n8 = 1.5e-9
c.cb n15 \ n14 = 1.5e-9
c.cin n6 n8 = 6.4e-9
dp.dbody n7 n5 = model = dbodymod
dp.dbreak n5 n11 = model=dbreakmod
dp.dplcap n10 n5 = model=dplcapmod
i.it n8 n17 = 1
1.1 drain n2 n5 = 1e-9
1.1gate n1 n9 = 4.81e-9
1.1source n3 n7 = 4.63e-9
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 = 1.05e-3, tc2 = -9e-7
res.rdrain n50 n16 = 9e-4, tc1 = 1.9e-2, tc2 = 4e-5
res.rgate n9 n20 = 1.36
res.rldrain n2 n5 = 10
res.rlgate n1 n9 = 48.1
res.rlsource n3 n7 = 46.3
res.rslc1 n5 n51= 1e-6, tc1 = 1e-3, tc2 = 1e-5
res.rslc2 n5 n50 = 1e3
res.rsource n8 n7 = 2.3e-3, tc1 = 1e-3, tc2 = 1e-6
res.rvtemp n18 n19 = 1, tc1 = -2.4e-3, tc2 = 1e-6
res.rvthres n22 n8 = 1, tc1 = -6e-3, tc2 = -1.9e-5
spe.ebreak n11 n7 n17 n18 = 82.3
spe.eds n14 \ n8 \ n5 \ n8 = 1
spe.egs n13 n8 n6 n8 = 1
spe.esg n6 n10 n6 n8 = 1
spe.evtemp n20 \ n6 \ n18 \ n22 = 1
spe.evthres n6 n21 n19 n8 = 1
sw vcsp.s1a n6 n12 n13 n8 = model=s1amod
sw_vcsp.s1b n13 n12 n13 n8 = model=s1bmod
```

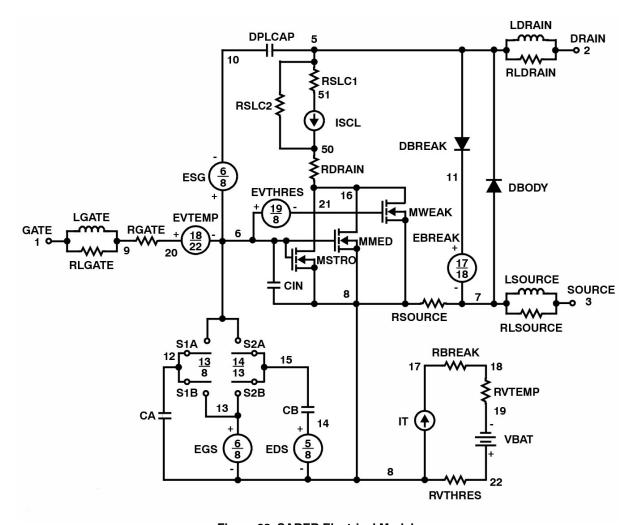


Figure 22. SABER Electrical Model

SPICE THERMAL MODEL

REV 23 March 2002

FDP047AN08A0T

CTHERM1 th 6 6.45e-3

CTHERM2 6 5 3e-2

CTHERM3 5 4 1.4e-2

CTHERM4 4 3 1.65e-2

CTHERM5 3 2 4.85e-2

CTHERM6 2 tl 1e-1

RTHERM1 th 6 3.24e-3

RTHERM2 6 5 8.08e-3

RTHERM3 5 4 2.28e-2

RTHERM4 4 3 1e-1

RTHERM5 3 2 1.1e-1

RTHERM6 2 tl 1.4e-1

SABER THERMAL MODEL

SABER thermal model FDP047AN08A0T template thermal model th tl

thermal_c th, tl

ctherm.ctherm1 th 6 = 6.45e-3

ctherm.ctherm2 6.5 = 3e-2

ctherm.ctherm354 = 1.4e-2

ctherm.ctherm4 4 3 = 1.65e-2

ctherm.ctherm5 3 2 = 4.85e-2

ctherm.ctherm6 2 tl = 1e-1

rtherm.rtherm1 th 6 = 3.24e-3

rtherm.rtherm2 6 5 = 8.08e-3

rtherm.rtherm3 5 4 = 2.28e-2

rtherm.rtherm4 4 3 = 1e-1

rtherm.rtherm5 3 2 = 1.1e-1

rtherm.rtherm6 2 tl = 1.4e-1

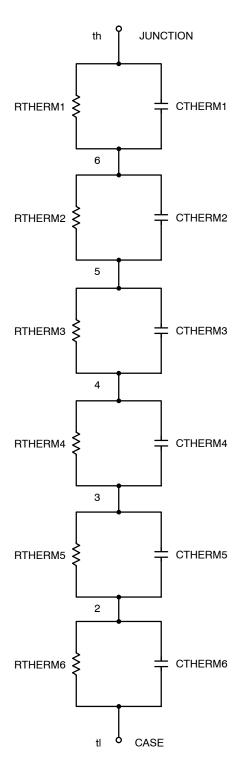
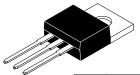


Figure 23. Thermal Model

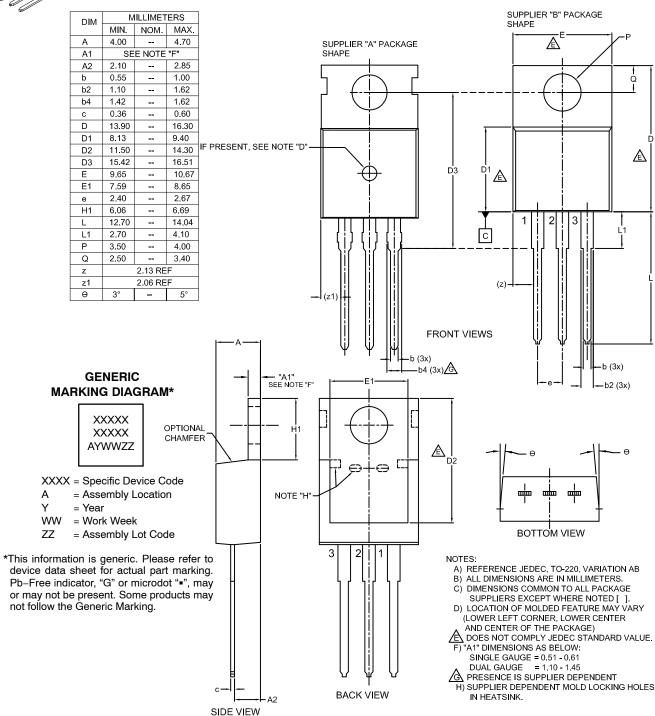
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TO-220-3LD CASE 340AT ISSUE B

DATE 08 AUG 2022



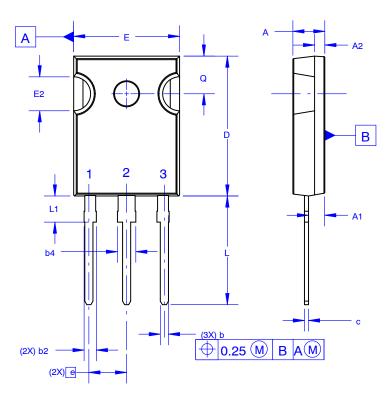
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TO-247-3LD SHORT LEAD

CASE 340CK ISSUE A



NOTES: UNLESS OTHERWISE SPECIFIED.

- A. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- B. ALL DIMENSIONS ARE IN MILLIMETERS.
- C. DRAWING CONFORMS TO ASME Y14.5 2009.
- D. DIMENSION A1 TO BE MEASURED IN THE REGION DEFINED BY L1.
- E. LEAD FINISH IS UNCONTROLLED IN THE REGION DEFINED BY L1.

GENERIC MARKING DIAGRAM*



XXXX = Specific Device Code

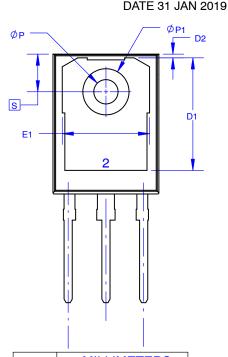
A = Assembly Location

Y = Year

WW = Work Week

ZZ = Assembly Lot Code

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.



DIM	MILLIMETERS			
ואוט	MIN	NOM	MAX	
Α	4.58	4.70	4.82	
A1	2.20	2.40	2.60	
A2	1.40	1.50	1.60	
b	1.17	1.26	1.35	
b2	1.53	1.65	1.77	
b4	2.42	2.54	2.66	
С	0.51	0.61	0.71	
D	20.32	20.57	20.82	
D1	13.08	~	~	
D2	0.51	0.93	1.35	
Е	15.37	15.62	15.87	
E1	12.81	?	~	
E2	4.96	5.08	5.20	
е	~	5.56	~	
L	15.75	16.00	16.25	
L1	3.69	3.81	3.93	
ØΡ	3.51	3.58	3.65	
Ø P1	6.60	6.80	7.00	
Q	5.34	5.46	5.58	
S	5.34	5.46	5.58	

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DESCRIPTION:	TO-247-3LD SHORT LEAD		PAGE 1 OF 1	

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