MOSFET – Power, N-Channel, POWERTRENCH®

100 V, 80 A, 9 m Ω

FDH3632, FDP3632, FDB3632

Features

- $R_{DS(ON)} = 7.5 \text{ m}\Omega$ (Typ.), $V_{GS} = 10 \text{ V}$, $I_D = 80 \text{ A}$
- Q_g (tot) = 84 nC (Typ.), V_{GS} = 10 V
- Low Miller Charge
- Low Q_{rr} Body Diode
- UIS Capability (Single Pulse and Repetitive Pulse)
- These Devices are Pb-Free and are RoHS Compliant

Applications

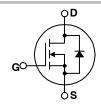
- Synchronous Rectification
- Battery Protection Circuit
- Motor Drives and Uninterruptible Power Supplies
- Micro Solar Inverter

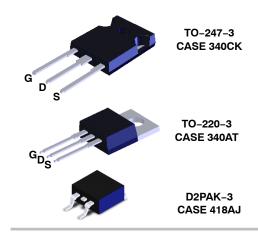


ON Semiconductor®

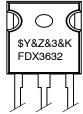
www.onsemi.com

V _{DSS}	R _{DS(ON)} MAX	I _D MAX
100 V	9 m Ω	80 A





MARKING DIAGRAM



\$Y = ON Semiconductor Logo &Z = Assembly Plant Code

&3 = Data Code (Year & Week)

&K = Lot

FDX3632 = Specific Device Code

X = H/P/B

ORDERING INFORMATION

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

MOSFET MAXIMUM RATINGS ($T_C = 25^{\circ}C$, Unless otherwise noted)

Symbol		Value	Unit	
V_{DSS}	Drain to Source Voltage		100	V
V_{GS}	Gate to Source Voltage		±20	V
I _D	Drain Current	- Continuous (T _C < 111°C, V _{GS} = 10 V)	80	Α
		– Continuous (T_{amb} = 25°C, V_{GS} = 10 V, $R_{\theta JA}$ = 43°C/W)	12	
I _D	Drain Current	- Pulsed	Figure 4	А
E _{AS}	Single Pulse Avalanche Energy (Note 1)		337	mJ
P_{D}	Power Dissipation (T _C = 25°C)		310	W
		- Derate Above 25°C	2.07	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 $T_J = 25$ °C, L = 0.12mH, $I_{AS} = 75$ A, $V_{DD} = 80$ V.

THERMAL CHARACTERISTICS

Symbol	Parameter	Value	Unit
$R_{ heta JC}$	Thermal Resistance, Junction to Case, Max. TO-220, D2-PAK, TO-247	0.48	°C/W
$R_{ heta JA}$	Thermal Resistance, Junction to Ambient, Max. TO-220 (Note 2)	62	°C/W
$R_{ heta JA}$	Thermal Resistance, Junction to Ambient, D2-PAK, Max. 1 in2 copper pad area	43	°C/W
$R_{\theta JA}$	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
FDB3632	FDB3632	D ² -PAK	330 mm	24 mm	800 Units
FDP3632	FDP3632	TO-220	Tube	N/A	50 Units
FDH3632	FDH3632	TO-247	Tube	N/A	30 Units

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

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
FF CHARAC	TERISTICS		•	•		
B _{VDSS}	Drain to Source Breakdown Voltage	$I_D = 250 \mu A, V_{GS} = 0 V$	100			V
	Zero Gate Voltage Drain Current	V _{DS} = 80 V, V _{GS} = 0 V			1	μА
		V _{DS} = 80 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		0.0075	0.009	Ω
		I _D = 40 V, V _{GS} = 6 V		0.009	0.015	
		I _D = 80 A, V _{GS} = 10 V, T _C = 175 °C		0.018	0.022	
YNAMIC CHA	ARACTERISTICS	•	•			
C _{iss}	Input Capacitance	V _{DS} = 25 V, V _{GS} = 0 V, f = 1 MHz		6000		pF
C _{oss}	Output Capacitance	7		820		pF
C _{rss}	Reverse Transfer Capacitance	7		200		pF
Q _{g(tot)}	Total Gate Charge at 10 V	V _{GS} = 0 V to 10 V, V _{DD} = 50 V, I _D = 80 A, I _g = 1 mA		84	110	nC
Q _{g(th)}	Threshold Gate Charge	V _{GS} = 0 V to 2 V, V _{DD} = 50 V, I _D = 80 A, I _g = 1 mA		11	14	nC
Q _{gs}	Gate to Source Gate Charge	V _{DD} = 50 V, I _D = 80 A, I _g = 1 mA		30		nC
Q _{gs2}	Gate Charge Threshold to Plateau	7		20		nC
Q_{gd}	Gate to Drain "Miller" Charge	7		20		nC
ESISTIVE SV	VITCHING CHARACTERISTICS (V _{GS} =	10 V)				
t _{ON}	Turn-On Time	V _{DD} = 50 V, I _D = 80 A,			102	ns
t _{d(ON)}	Turn-On Delay Time	$V_{GS} = 10 \text{ V}, R_{GS} = 3.6 \Omega$		30		ns
t _r	Rise Time	7		39		ns
t _{d(OFF)}	Turn-Off Delay Time	7		96		ns
t _f	Fall Time	1		46		ns
t _{OFF}	Turn-Off Time	7			213	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	$I_{SD} = 75 \text{ A}, dI_{SD}/dt = 100 \text{ A}/\mu\text{s}$	1		64	ns
Q _{RR}	Reverse Recovered Charge	1			120	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

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

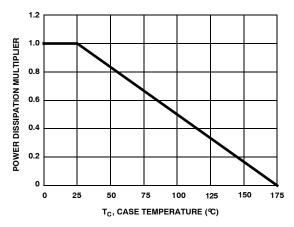


Figure 1. Normalized Power Dissipation vs. Ambient Temperature

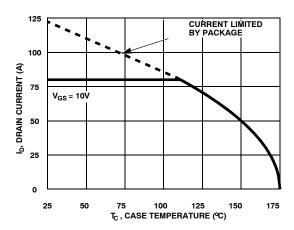


Figure 2. Maximum Continuous Drain Current vs Case Temperature

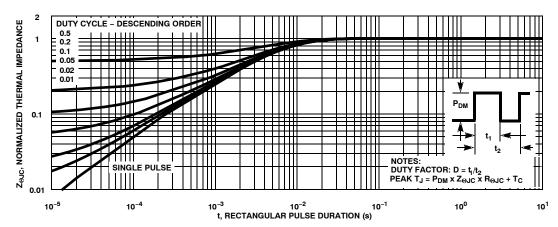


Figure 3. Normalized Maximum Transient Thermal Impedance

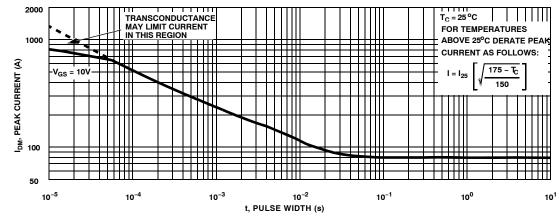


Figure 4. Peak Current Capability

TYPICAL CHARACTERISTICS (Continued)

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

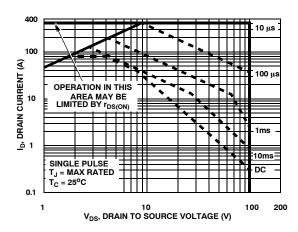


Figure 5. Forward Bias Safe Operating Area

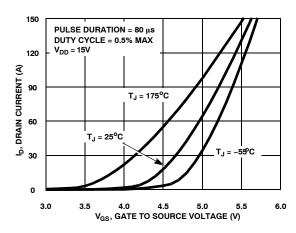


Figure 7. Transfer Characteristics

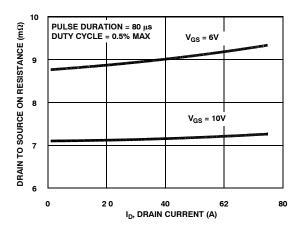


Figure 9. Drain to Source On Resistance vs Drain Current



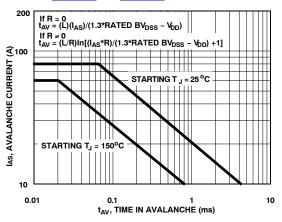


Figure 6. Unclamped Inductive Switching Capability

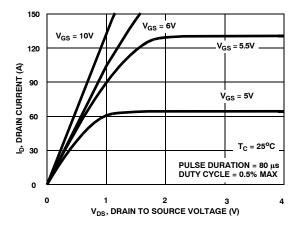


Figure 8. Saturation Characteristics

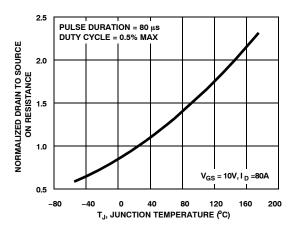


Figure 10. Normalized Drain to Source On Resistance vs Junction Temperature

TYPICAL CHARACTERISTICS (Continued)

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

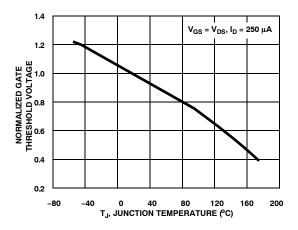


Figure 11. Normalized Gate Threshold Voltage vs. Junction Temperature

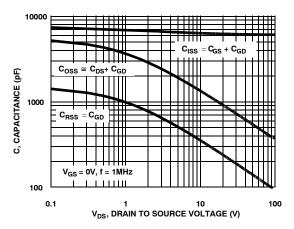


Figure 13. Capacitance vs. Drain to Source Voltage

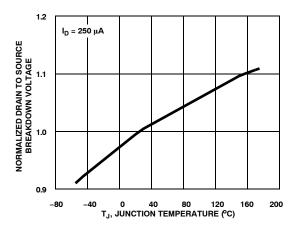


Figure 12. Normalized Drain to Source Breakdown Voltage vs Junction Temperature

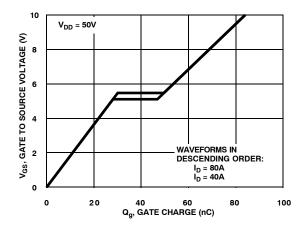


Figure 14. Gate Charge Waveforms for Constant Gate Currents

TEST CIRCUITS WAVEFORMS

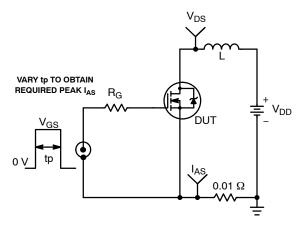


Figure 15. Unclamped Energy Test Curcuit

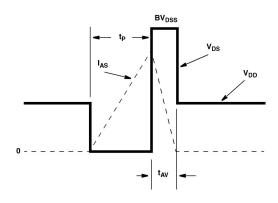


Figure 16. Unclamped Energy Waveforms

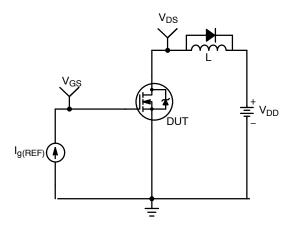


Figure 17. Gate Charge Test Circuit

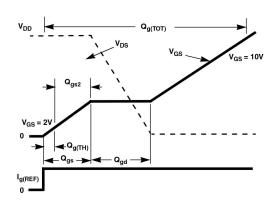


Figure 18. Gate Charge Waveforms

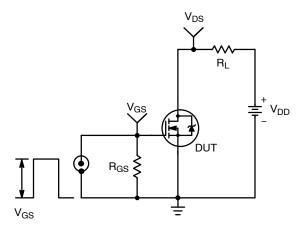


Figure 19. Switching Time Test Circuit

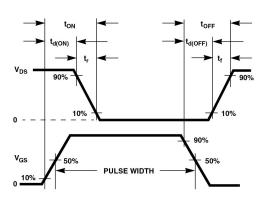


Figure 20. Switching Time Waveforms

Thermal Resistance vs. Mounting Pad Area

The maximum rated junction temperature, TJM, and the thermal resistance of the heat dissipating path determines the maximum allowable device power dissipation, PDM, in an application. Therefore the application's ambient temperature, TA (°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-263 package, the environment in which it is applied will have a significant influence on the parts current and maximum power dissipation ratings. Precise determination of PDM 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.

ON Semiconductor 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 1 oz 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 ON Semiconductor 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 centimeter square. The area, in square inches or square centimeters is the top copper area including the gate and source pads.

$$R_{\Theta JA} = 26.51 + \frac{19.84}{(0.262 + Area)}$$
 (eq. 2)

Area in in².

$$R_{\Theta JA} = 26.51 + \frac{128}{(1.69 + Area)}$$
 (eq. 3)

Area in cm².

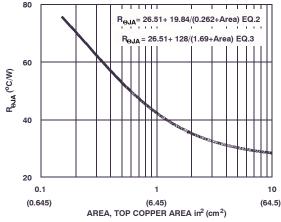


Figure 21. Thermal Resistance vs. Mounting Pad Area

PSPICE Electrical Model

. SUBCKT FDB3632 2 1 3 ; rev May 2002

CA 12 8 1.7e-9

Cb 15 14 2.5e-9

Cin 6 8 6.0e-9

Dbody 7 5 DbodyMOD

Dbreak 5 11 DbreakMOD

Dplcap 10 5 DplcapMOD

Ebreak 11 7 17 18 102.5

Eds 14 8 5 8 1

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

Lgate 1 9 5.61e-9

Ldrain 2 5 1.0e-9

Lsource 3 7 2.7e-9

RLgate 1 9 56.1

RLdrain 2 5 10

RLsource 3 7 27

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 Rdrain MOD 3.8e-3

Rgate 9 20 1.1

RSLC1 5 51 RSLCMOD 1.0e-6

RSLC2 5 50 1.0e3

Rsource 8 7 RsourceMOD 2.5e-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*350),3))}

.MODEL DbodyMOD D (IS=5.9E-11 N=1.07 RS=2.3e-3 TRS1=3.0e-3 TRS2=1.0e-6

+ CJO=4e-9 M=0.58 TT=4.8e-8 XTI=4.2)

.MODEL DbreakMOD D (RS=0.17 TRS1=3.0e-3 TRS2=-8.9e-6)

.MODEL DplcapMOD D (CJO=15e-10 IS=1.0e-30 N=10 M=0.6)

.MODEL MstroMOD NMOS (VTO=4.1 KP=200 IS=1e-30 N=10 TOX=1 L=1u W=1u)

.MODEL MmedMOD NMOS (VTO=3.4 KP=10.0 IS=1e-30 N=10 TOX=1 L=1u W=1u RG=1.1)

.MODEL MweakMOD NMOS (VTO=2.75 KP=0.05 IS=1e-30 N=10 TOX=1 L=1u W=1u RG=1.1e+1 RS=0.1)

.MODEL RbreakMOD RES (TC1=1.0e-3 TC2=-1.7e-6)

.MODEL RdrainMOD RES (TC1=8.5e-3 TC2=2.8e-5)

.MODEL RSLCMOD RES (TC1=2.0e-3 TC2=2.0e-6)

```
.MODEL RsourceMOD RES (TC1=4e-3 TC2=1e-6)
```

.MODEL RvthresMOD RES (TC1=-4.0e-3 TC2=-1.8e-5)

.MODEL RvtempMOD RES (TC1=-4.4e-3 TC2=2.2e-6)

.MODEL S1AMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-4 VOFF=-2)

.MODEL S1BMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-2 VOFF=-4)

.MODEL S2AMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-0.8 VOFF=0.4)

.MODEL S2BMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=0.4 VOFF=-0.8)

.ENDS

NOTE: For further discussion of the PSPICE model, consult A New PSPICE Sub-Circuit for the Power MOSFET Featuring Global Temperature Options; IEEE Power Electronics Specialist Conference Records, 1991, written by William J. Hepp and C. Frank Wheatley.

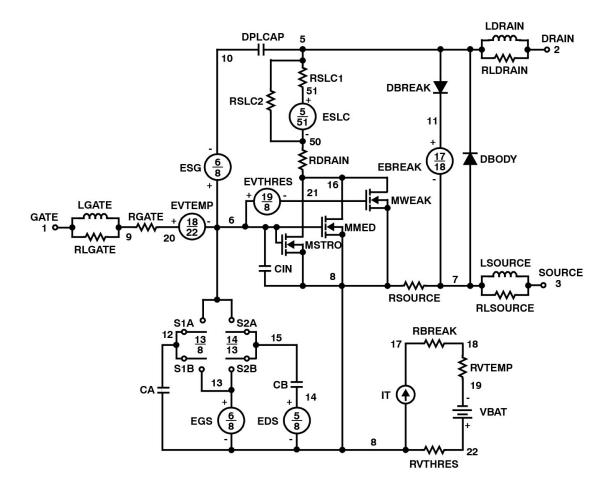


Figure 22. PSPICE Electrical Model

SABER Electrical Model

```
REV May 2002
template FDB3632 n2,n1,n3
electrical n2,n1,n3
var i iscl
dp..model\ dbodymod = (isl = 5.9e - 11, nl = 1.07, rs = 2.3e - 3, trs 1 = 3.0e - 3, trs 2 = 1.0e - 6, cjo = 4e - 9, m = 0.58, tt = 4.8e - 8, xti = 4.2)
dp..model dbreakmod = (rs=0.17, trs1=3.0e-3, trs2=-8.9e-6)
dp..model dplcapmod = (cjo=15e-10,isl=10.0e-30,nl=10,m=0.6)
m..model mstrongmod = (type= n,vto=4.1,kp=200,is=1e-30,tox=1)
m..model mmedmod = (type=_n, vto=3.4, kp=10.0, is=1e-30, tox=1)
m..model mweakmod = (type= n, vto=2.75, kp=0.05, is=1e-30, tox=1, rs=0.1)
sw vcsp..model s1amod = (ron=1e-5, roff=0.1, von=-4, voff=-2)
sw vcsp..model s2amod = (ron=1e-5, roff=0.1, von=-0.8, voff=0.4)
sw vcsp..model s2bmod = (ron=1e-5, roff=0.1, von=0.4, voff=-0.8)
c.ca n12 n8 = 1.7e-9
c.cb n15 \ n14 = 2.5e-9
c.cin n6 n8 = 6.0e-9
dp.dbody n7 n5 = model = dbodymod
dp.dbreak n5 n11 = model=dbreakmod
dp.dplcap n10 n5 = model=dplcapmod
spe.ebreak n11 n7 n17 n18 = 102.5
spe.eds n14 \ n8 \ n5 \ n8 = 1
spe.egs n13 \ n8 \ n6 \ n8 = 1
spe.esg n6 n10 n6 n8 = 1
spe.evthres n6 n21 n19 n8 = 1
spe.evtemp n20 n6 n18 n22 = 1
i.it n8 n17 = 1
1.1gate n1 n9 = 5.61e-9
1.1drain n2 n5 = 1.0e-9
1.1source n3 n7 = 2.7e-9
res.rlgate n1 n9 = 56.1
res.rldrain n2 n5 = 10
res.rlsource n3 n7 = 27
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=1.0e-3,tc2=-1.7e-6
res.rdrain n50 n16 = 3.8e-3, tc1=8.5e-3,tc2=2.8e-5
res.rgate n9 \ n20 = 1.1
res.rslc1 n5 n51 = 1.0e-6, tc1=2.0e-3,tc2=2.0e-6
res.rslc2 n5 n50 = 1.0e3
res.rsource n8 n7 = 2.5e-3, tc1=4e-3,tc2=1e-6
res.rvthres n22 n8 = 1, tc1=-4.0e-3, tc2=-1.8e-5
res.rvtemp n18 n19 = 1, tc1=-4.4e-3,tc2=2.2e-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
```

 $iscl: v(n51,n50) = ((v(n5,n51)/(1e-9+abs(v(n5,n51))))*((abs(v(n5,n51)*1e6/350))**3)) \\ \} \\ \\$

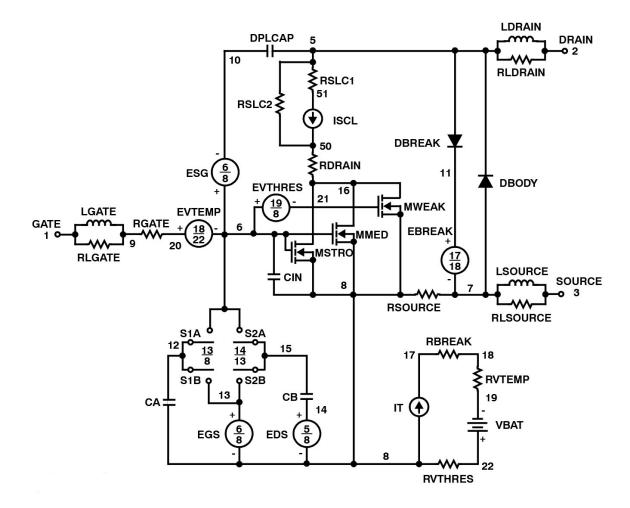


Figure 23. SABER Electrical Model

SPICE Thermal Model

REV May 2002

FDB3632

CTHERM1 TH 6 7.5e-3 CTHERM2 6 5 8.0e-3 CTHERM3 5 4 9.0e-3 CTHERM4 4 3 2.4e-2 CTHERM5 3 2 3.4e-2 CTHERM6 2 TL 6.5e-2 RTHERM1 TH 6 3.1e-4 RTHERM2 6 5 2.5e-3 RTHERM3 5 4 2.2e-2 RTHERM4 4 3 8.1e-2 RTHERM5 3 2 1.35e-1

SABER Thermal Model

RTHERM6 2 TL 1.5e-1

SABER thermal model FDB3632 template thermal_model th tl thermal_c th, tl $\{$ ctherm.ctherm1 th 6 =7.5e-3 ctherm.ctherm2 6 5 =8.0e-3 ctherm.ctherm3 5 4 =9.0e-3 ctherm.ctherm4 4 3 =2.4e-2 ctherm.ctherm5 3 2 =3.4e-2 ctherm.ctherm6 2 tl =6.5e-2 rtherm.rtherm1 th 6 =3.1e-4 rtherm.rtherm2 6 5 =2.5e-3 rtherm.rtherm3 5 4 =2.2e-2 rtherm.rtherm4 4 3 =8.1e-2 rtherm.rtherm5 3 2 =1.35e-1 rtherm.rtherm6 2 tl =1.5e-1

}

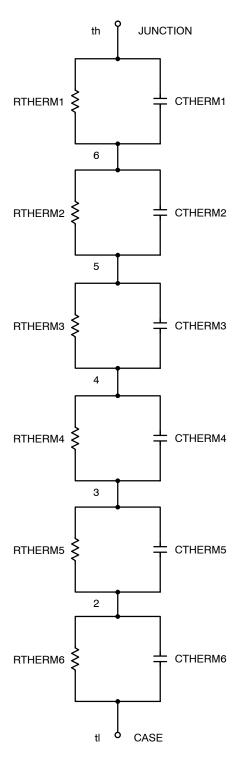
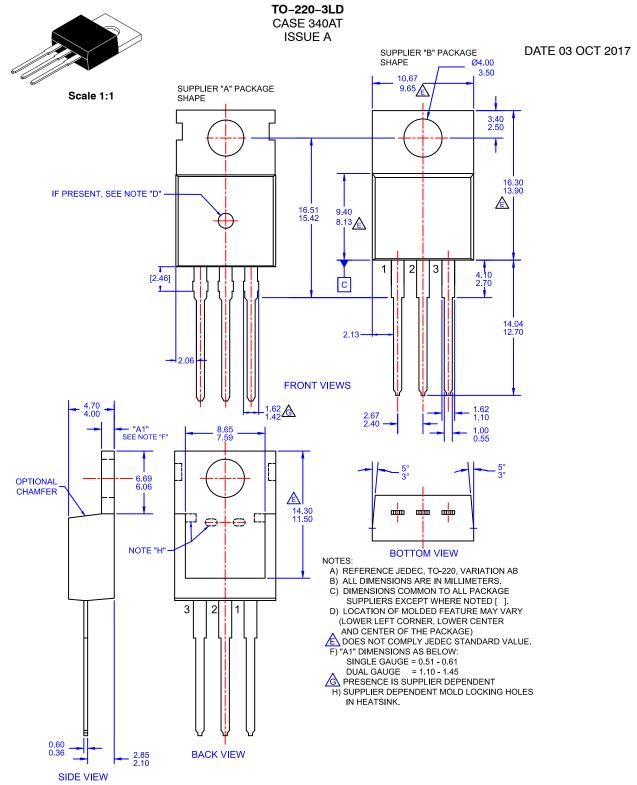


Figure 24. Thermal Model

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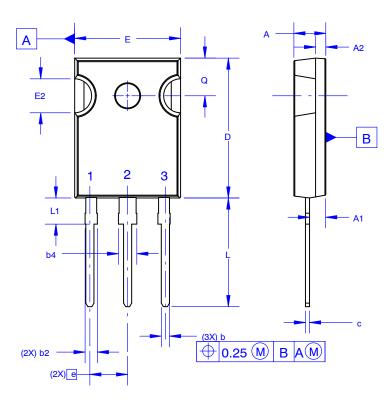


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TO-247-3LD SHORT LEAD

CASE 340CK ISSUE A





- 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

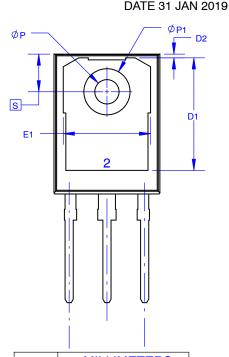
A = Assembly Location

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			
DIIVI	MIN	NOM	MAX	
Α	4.58	4.70	4.82	
A 1	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	
E	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	
ØP1	6.60	6.80	7.00	
Q	5.34	5.46	5.58	
S	5.34	5.46	5.58	

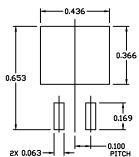
DOCUMENT NUMBER:	98AON13851G	Electronic versions are uncontrolled except when accessed directly from the Document Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	TO-247-3LD SHORT LEAD	TO-247-3LD SHORT LEAD		

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D²PAK-3 (TO-263, 3-LEAD) CASE 418AJ ISSUE F

DATE 11 MAR 2021



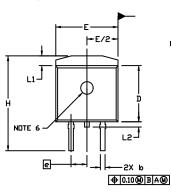
RECOMMENDED MOUNTING FOOTPRINT

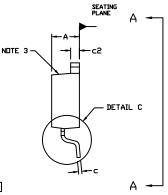
For additional information on our Pb-Free strategy and soldering details, please download the IN Seniconductor Soldering and Mounting Techniques Reference Manual, SILIERRM/D.

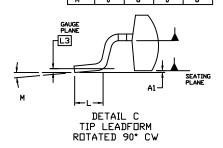
NOTES

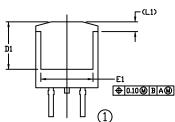
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
- 2. CONTROLLING DIMENSION: INCHES
- 3. CHAMFER OPTIONAL.
- 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH.
 MOLD FLASH SHALL NOT EXCEED 0.005 PER SIDE.
 THESE DIMENSIONS ARE MEASURED AT THE OUTERMOST
 EXTREMES OF THE PLASTIC BODY AT DATUM H.
- 5. THERMAL PAD CONTOUR IS OPTIONAL WITHIN DIMENSIONS E, L1, D1, AND E1.
- 6. OPTIONAL MOLD FEATURE.
- 7. ①,② ... DPTIONAL CONSTRUCTION FEATURE CALL DUTS.

	INCHES		MILLIN	ETERS	
DIM	MIN.	MAX.	MIN.	MAX.	
Α	0.160	0.190	4.06	4.83	
A1	0.000	0.010	0.00	0.25	
b	0.020	0.039	0.51	0.99	
С	0.012	0.029	0.30	0.74	
c2	0.045	0.065	1.14	1.65	
D	0.330	0.380	8.38	9.65	
D1	0.260		6.60		
E	0.380	0.420	9.65	10.67	
E1	0.245		6.22		
e	0.100	BSC	2.54	BSC	
Н	0.575	0.625	14.60	15.88	
L	0.070	0.110	1.78	2.79	
L1		0.066		1.68	
L5		0.070		1.78	
L3	0.010 BSC		0.25	BSC	
м	0+	8*	n•	8.	

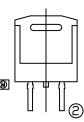


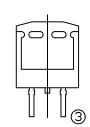


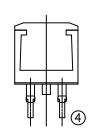




VIEW A-A







VIEW A-A

OPTIONAL CONSTRUCTIONS

GENERIC MARKING DIAGRAMS*

XXXXXX = Specific Device Code A = Assembly Location

 WL
 = Wafer Lot

 Y
 = Year

 WW
 = Work Week

 W
 = Week Code (SSG)

 M
 = Month Code (SSG)

 G
 = Pb-Free Package

 AKA
 = Polarity Indicator

*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.

DOCUMENT NUMBER:

98AON56370E

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DESCRIPTION:

D²PAK-3 (TO-263, 3-LEAD)

PAGE 1 OF 1

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