

MOSFET – N-Channel, POWER TRENCH®

100 V, 61 A, 16 mΩ

FDP3652, FDB3652

Features

- $R_{DS(on)} = 14 \text{ m}\Omega$ (Typ.) @ $V_{GS} = 10 \text{ V}$, $I_D = 61 \text{ A}$
- $Q_{g(tot)} = 41 \text{ nC}$ (Typ.) @ $V_{GS} = 10 \text{ V}$
- Low Miller Charge
- Low Q_{RR} Body Diode
- UIS Capability (Single Pulse and Repetitive Pulse)
- These Devices are Pb-Free and Halide Free

Applications

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

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

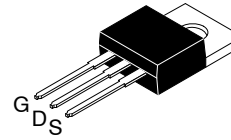
Symbol	Parameter	FDP3652 / FDB3652	Unit
V_{DSS}	Drain to Source Voltage	100	V
V_{GS}	Gate to Source Voltage	+20	V
I_D	Drain Current Continuous ($T_C = 25^\circ\text{C}$, $V_{GS} = 10 \text{ V}$) Continuous ($T_C = 100^\circ\text{C}$, $V_{GS} = 10 \text{ V}$) Continuous ($T_{amb} = 25^\circ\text{C}$, $V_{GS} = 10 \text{ V}$, with $R_{\theta JA} = 43^\circ\text{C/W}$) Pulsed	61 43 9 Figure 4	A
E_{AS}	Single Pulse Avalanche Energy (Note 1)	182	mJ
P_D	Power Dissipation Derate above 25°C	150 1.0	W W/ $^\circ\text{C}$
T_J, T_{STG}	Operating and Storage Temperature	-55 to 175	$^\circ\text{C}$

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.

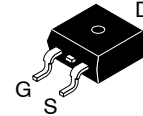
THERMAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$, unless otherwise noted)

Symbol	Parameter	FDP3652 / FDB3652	Unit
$R_{\theta JC}$	Thermal Resistance Junction to Case TO-220, D ² -PAK	1.0	$^\circ\text{C/W}$
$R_{\theta JA}$	Thermal Resistance Junction to Ambient, TO-220, D ² -PAK (Note 2)	62	
$R_{\theta JA}$	Thermal Resistance Junction to Ambient D ² -PAK, 1 in ² Copper Pad Area	43	

V_{DS}	$R_{DS(on)}$ MAX	I_D MAX
100 V	16 mΩ @ 10 V	61 A

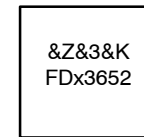


TO-220-3LD
CASE 340AT

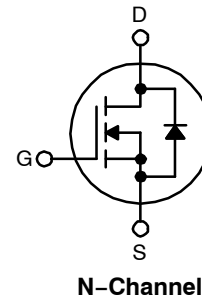


D²PAK-3
(TO-263, 3-LEAD)
CASE 418AJ

MARKING DIAGRAM



&Z = Assembly Plant Code
 &3 = 3-Digit Date Code
 &K = 2-Digits Lot Run Traceability Code
 FDx3652 = Device Code (x = P, B)



ORDERING INFORMATION

Device	Package	Shipping†
FDP3652	TO-220-3LD	800 Units / Tube
FDB3652	D2PAK-3	800 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, [BRD8011/D](#).

FDP3652, FDB3652

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

Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
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OFF CHARACTERISTICS

B _{VDSS}	Drain to Source Breakdown Voltage	I _D = 250 μA, V _{GS} = 0 V	100	–	–	V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 80 V, V _{GS} = 0 V	–	–	1	μA
		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

ON CHARACTERISTICS

V _{GS(TH)}	Gate to Source Threshold Voltage	V _{GS} = V _{DS} , I _D = 250 μA	2	–	4	V
R _{DS(on)}	Drain to Source On Resistance	I _D = 61 A, V _{GS} = 10 V	–	0.014	0.016	Ω
		I _D = 30 A, V _{GS} = 6 V	–	0.018	0.026	
		I _D = 61 A, V _{GS} = 10 V, T _J = 175°C	–	0.035	0.043	

DYNAMIC CHARACTERISTICS

C _{ISS}	Input Capacitance	V _{DS} = 25 V, V _{GS} = 0 V, f = 1 MHz	–	2880	–	pF
C _{OSS}	Output Capacitance		–	390	–	pF
C _{RSS}	Reverse Transfer Capacitance		–	100	–	pF
Q _{g(TOT)}	Total Gate Charge at 10 V	V _{GS} = 0 V to 10 V, V _{DD} = 50 V, I _D = 61 A, I _g = 1.0 mA	–	41	53	nC
Q _{g(TH)}	Threshold Gate Charge	V _{GS} = 0 V to 2 V, V _{DD} = 50 V, I _D = 61 A, I _g = 1.0 mA	–	5	6.5	nC
Q _{gs}	Gate to Source Gate Charge	V _{DD} = 50 V, I _D = 61 A, I _g = 1.0 mA	–	15	–	nC
Q _{gs2}	Gate Charge Threshold to Plateau		–	10	–	nC
Q _{gd}	Gate to Drain “Miller” Charge		–	10	–	nC

SWITCHING CHARACTERISTICS (V_{GS} = 10 V)

t _{ON}	Turn-On Time	V _{DD} = 50 V, I _D = 61 A, V _{GS} = 10 V, R _{GS} = 6.8 Ω	–	–	146	ns
t _{d(ON)}	Turn-On Delay Time		–	12	–	ns
t _r	Rise Time		–	85	–	ns
t _{d(OFF)}	Turn-Off Delay Time		–	26	–	ns
t _f	Fall Time		–	45	–	ns
t _{OFF}	Turn-Off Time		–	–	107	ns

DRAIN-SOURCE DIODE CHARACTERISTICS

V _{SD}	Source to Drain Diode Voltage	I _{SD} = 61 A	–	–	1.25	V
		I _{SD} = 30 A	–	–	1.0	V
t _{rr}	Reverse Recovery Time	I _{SD} = 61 A, dI _{SD} /dt = 100 A/μs	–	–	62	ns
Q _{RR}	Reverse Recovery Charge	I _{SD} = 61 A, dI _{SD} /dt = 100 A/μs	–	–	45	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.

- Starting T_J = 25°C, L = 0.228 mH, I_{AS} = 40 A.
- Pulse Width = 100 s.

TYPICAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$, unless otherwise noted)

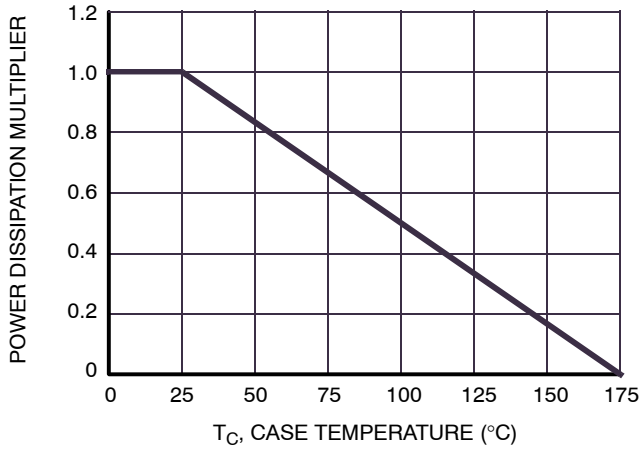


Figure 1. Normalized Power Dissipation vs. Ambient Temperature

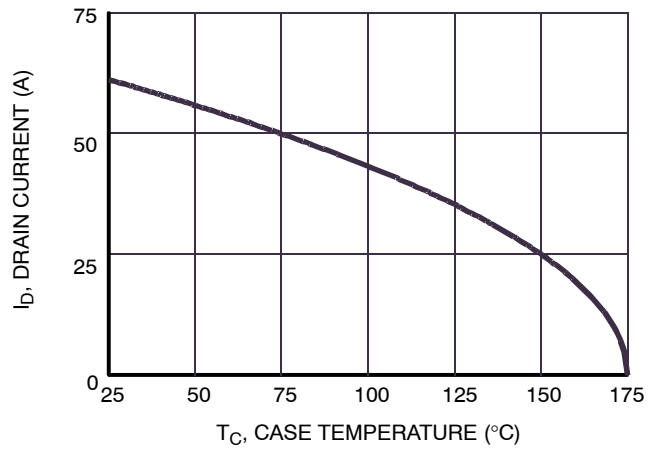


Figure 2. Maximum Continuous Drain Current vs. Case Temperature

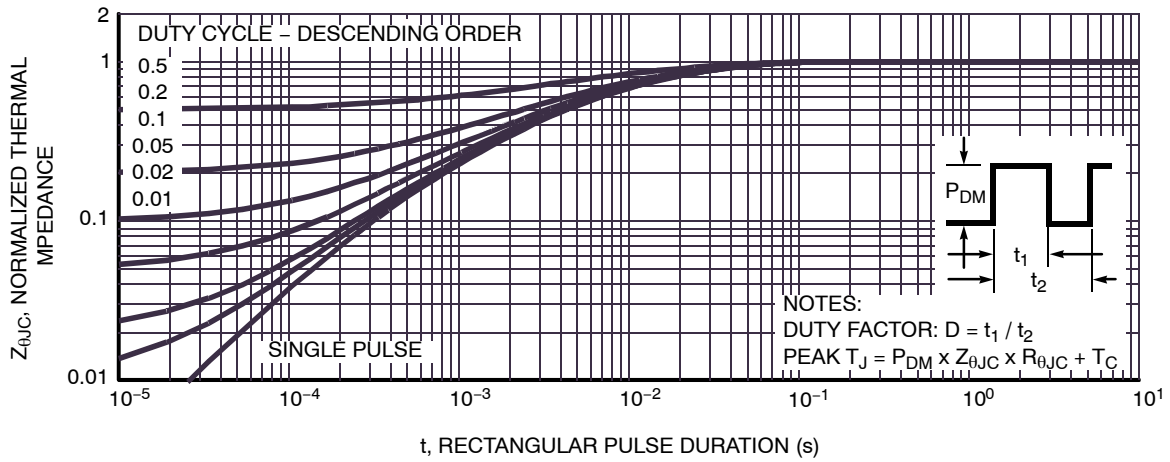


Figure 3. Normalized Maximum Transient Thermal Impedance

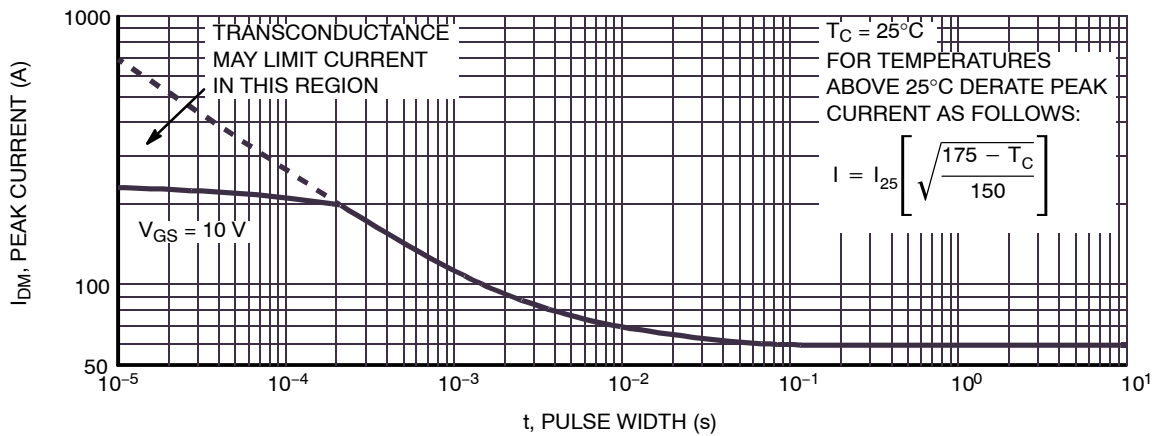


Figure 4. Peak Current Capability

TYPICAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$, unless otherwise noted) (continued)

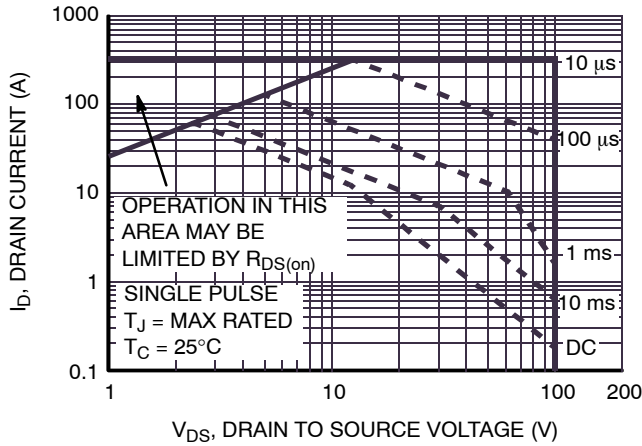
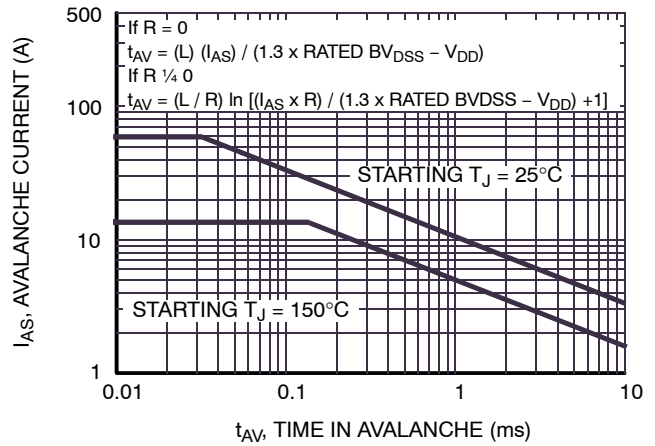


Figure 5. Forward Bias Safe Operating Area



NOTE: Refer to **onsemi** Application Notes [AN7514](#) and [AN7515](#)

Figure 6. Unclamped Inductive Switching Capability

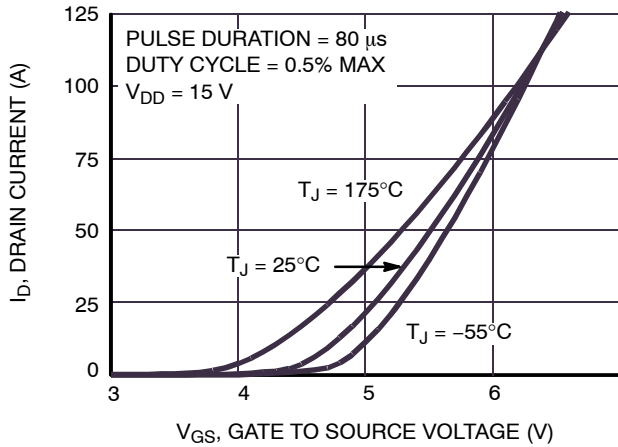


Figure 7. Transfer Characteristics

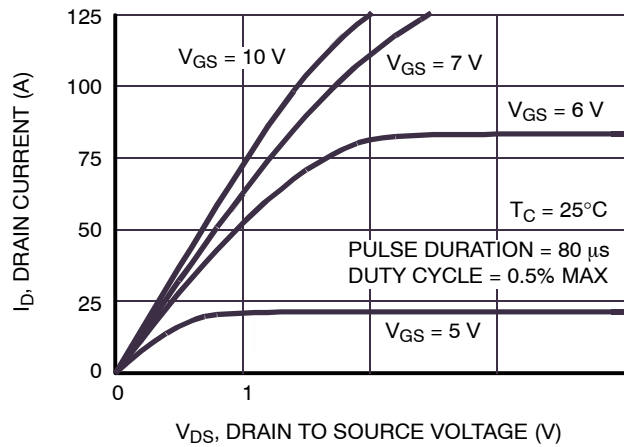


Figure 8. Saturation Characteristics

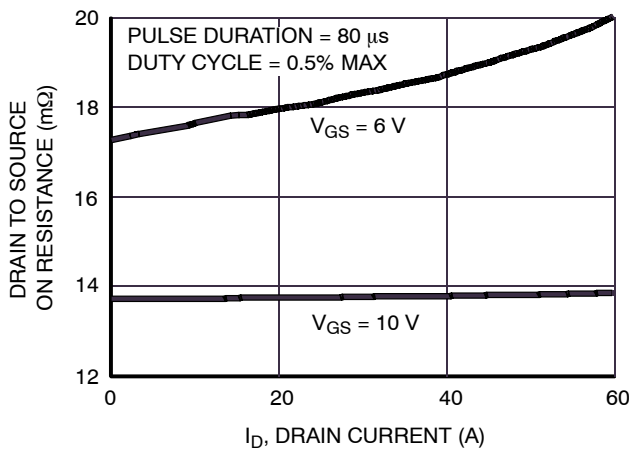


Figure 9. Drain to Source On Resistance vs. Drain Current

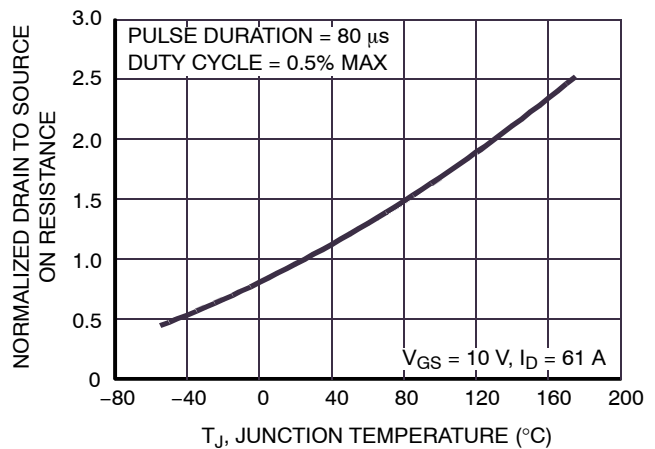


Figure 10. Normalized Drain to Source On Resistance vs. Junction Temperature

TYPICAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$, unless otherwise noted) (continued)

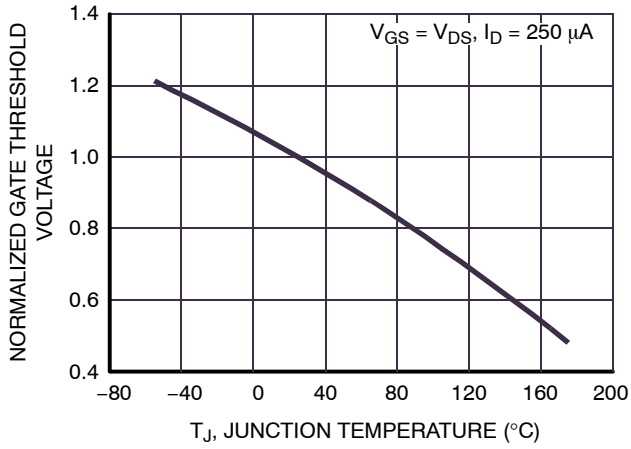


Figure 11. Normalized Gate Threshold Voltage vs. Junction Temperature

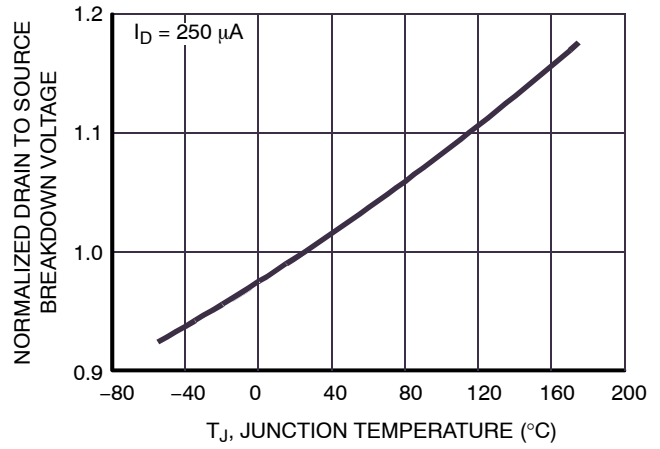


Figure 12. Normalized Drain to Source Breakdown Voltage vs. Junction Temperature

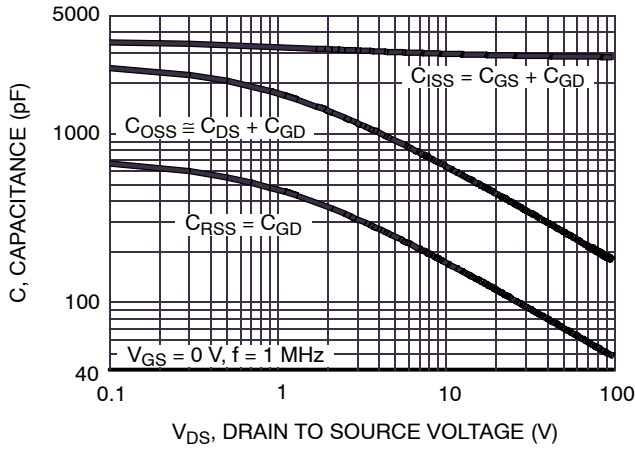


Figure 13. Capacitance vs. Drain to Source Voltage

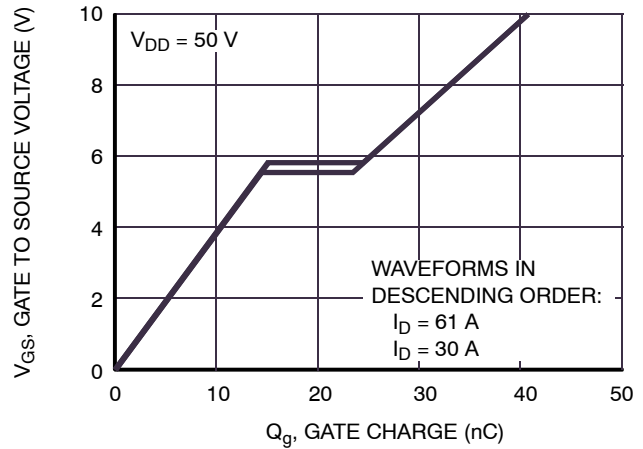


Figure 14. Gate Charge Waveforms for Constant Gate Currents

TEST CIRCUITS AND WAVEFORMS

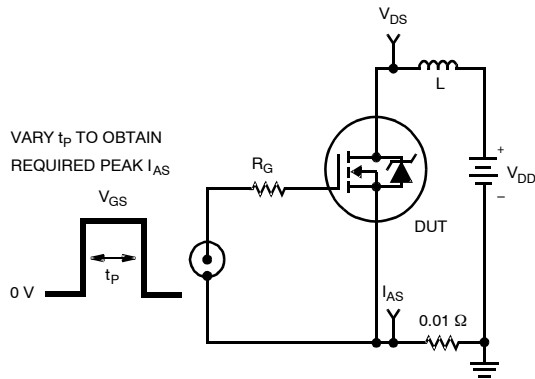


Figure 15. Unclamped Energy Test Circuit

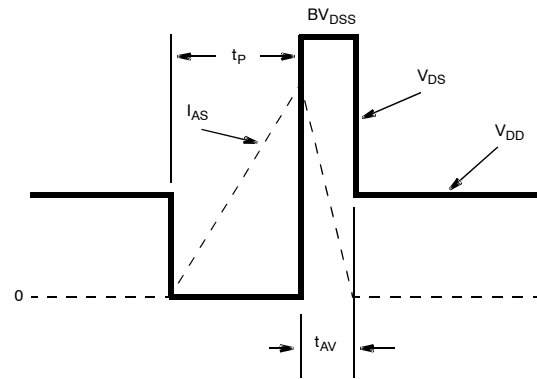


Figure 16. Unclamped Energy Waveforms

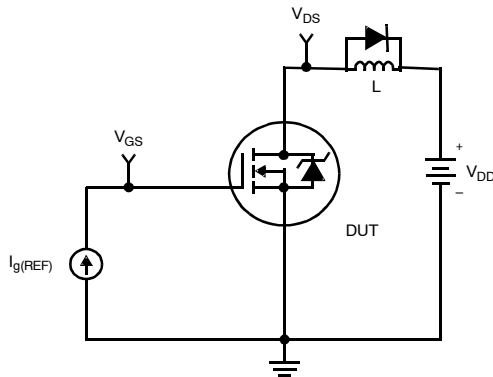


Figure 17. Gate Charge Test Circuit

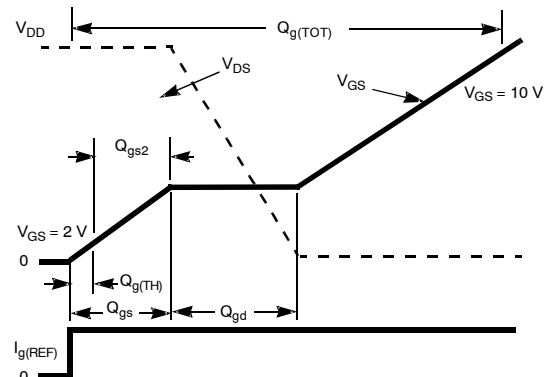


Figure 18. Gate Charge Waveforms

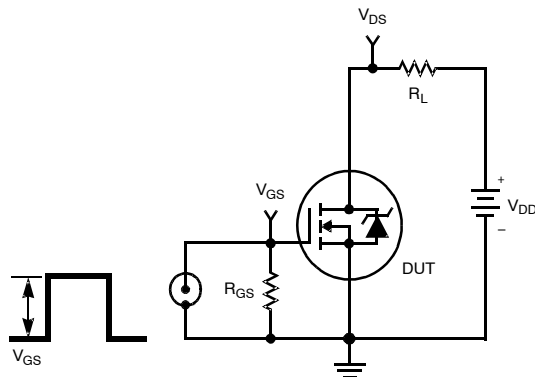


Figure 19. Switching Time Test Circuit

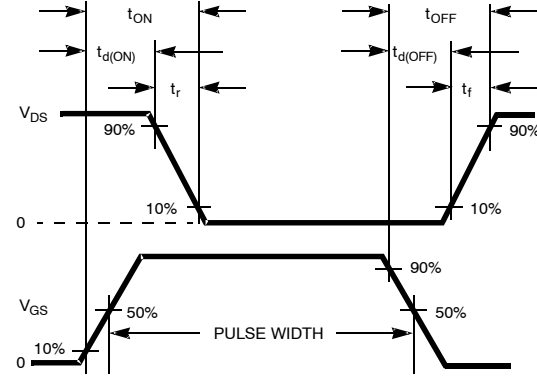


Figure 20. Switching Time Waveforms

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 ($^{\circ}\text{C}$), and thermal resistance $R_{\theta JA}$ ($^{\circ}\text{C}/\text{W}$) 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.

$$P_{DM} = \frac{(T_{JM} - T_A)}{R_{\theta JA}} \quad (\text{eq. 1})$$

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 part's current and maximum power dissipation ratings. Precise determination of P_{DM} is complex and influenced by many factors:

1. Mounting pad area onto which the device is attached and whether there is copper on one side or both sides of the board.
2. 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.

onsemi 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 **onsemi** 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.

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

Area in Inches Squared

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

Area in Centimeters Squared

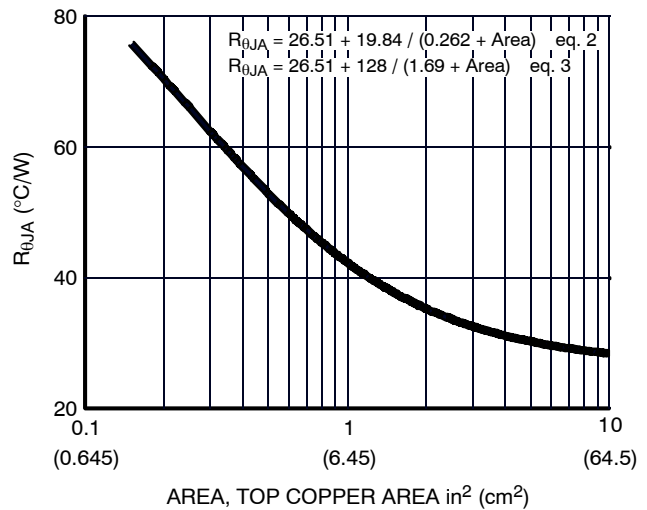


Figure 21. Thermal Resistance vs. Mounting Pad Area

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PSPICE ELECTRICAL MODEL

.SUBCKT FDP3652 2 1 3 rev March 2002

Ca 12 8 1.1e-9

Cb 15 14 1.1e-9

Cin 6 8 2.8e-9

Dbody 7 5 DbodyMOD

Dbreak 5 11 DbreakMOD

Dplcap 10 5 DplcapMOD

Ebreak 11 7 17 18 108.2

Eds 14 8 5 8 1

Egs 13 8 6 8 1

Esg 6 10 6 8 1

Evthres 6 21 19 8 1

Etemp 20 6 18 22 1

It 8 17 1

Lgate 1 9 7.16e-9

Ldrain 2 5 1.0e-9

Lsource 3 7 2.29e-9

RLgate 1 9 71.6

RLdrain 2 5 10

RLsource 3 7 22.9

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 5.7e-3

Rgate 9 20 1.06

RSLC1 5 51 RSLCMOD 1e-6

RSLC2 5 50 1e3

Rsource 8 7 RsourceMOD 6.5e-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*150),7)) }

.MODEL DbodyMOD D (IS=1.5E-11 N=1.06 RS=2.5e-3 TRS1=2.4e-3 TRS2=1.1e-6

+ CJO=1.9e-9 M=5.8e-1 TT=2.5e-8 XTI=3.9)

.MODEL DbreakMOD D (RS=2.7e-1 TRS1=1e-3 TRS2=-8.9e-6)

.MODEL DplcapMOD D (CJO=7e-10 IS=1e-30 N=10 M=0.58)

.MODEL MmedMOD NMOS (VTO=3.6 KP=5.5 IS=1e-30 N=10 TOX=1 L=1u W=1u RG=1.06)

.MODEL MstroMOD NMOS (VTO=4.3 KP=110 IS=1e-30 N=10 TOX=1 L=1u W=1u)

.MODEL MweakMOD NMOS (VTO=3 KP=0.03 IS=1e-30 N=10 TOX=1 L=1u W=1u RG=1.06e1 RS=.1)

.MODEL RbreakMOD RES (TC1=1.05e-3 TC2=1e-6)

.MODEL RdrainMOD RES (TC1=1.7e-2 TC2=3.2e-5)

.MODEL RSLCMOD RES (TC1=1e-3 TC2=1e-7)

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

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```
.MODEL RvthresMOD RES (TC1=-5.3e-3 TC2=-1.2e-5)
.MODEL RvtempMOD RES (TC1=-3.3e-3 TC2=1.3e-6)

.MODEL S1AMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-8 VOFF=-5)
.MODEL S1BMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-5 VOFF=-8)
.MODEL S2AMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-1 VOFF=0.5)
.MODEL S2BMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=0.5 VOFF=-1)

.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.

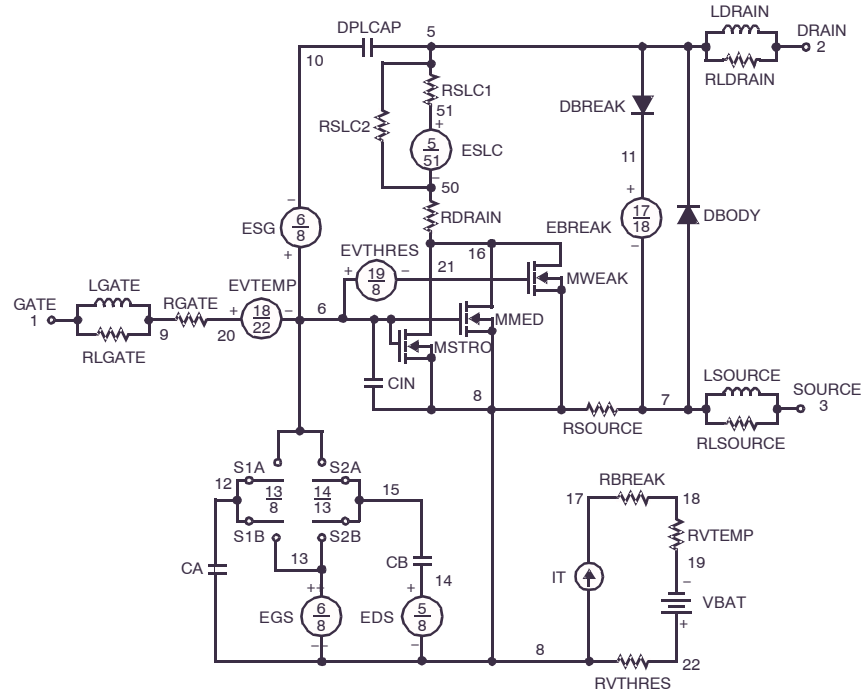


Figure 22.

SABER ELECTRICAL MODEL

REV March 2002

template FDP3652 n2,n1,n3

electrical n2,n1,n3

```

{
var i iscl
dp..model dbodymod = (isl=1.5e-11,nl=1.06,rs=2.5e-3,trs1=2.4e-3,trs2=1.1e-6,cjo=1.9e-9,m=5.8e-1,tt=2.5e-8,xti=3.9)
dp..model dbreakmod = (rs=2.7e-1,trs1=1e-3,trs2=-8.9e-6)
dp..model dplcapmod = (cjo=7e-10,isl=10e-30,nl=10,m=0.58)
m..model mmedmod = (type=_n,vto=3.6,kp=5.5,is=1e-30, tox=1)
m..model mstrongmod = (type=_n,vto=4.3,kp=110,is=1e-30, tox=1)
m..model mweakmod = (type=_n,vto=3,kp=0.03,is=1e-30, tox=1,rs=.1)
sw_vcsp..model s1amod = (ron=1e-5,roff=0.1,von=-8,voff=-5)
sw_vcsp..model s1bmod = (ron=1e-5,roff=0.1,von=-5,voff=-8)
sw_vcsp..model s2amod = (ron=1e-5,roff=0.1,von=-1,voff=0.5)
sw_vcsp..model s2bmod = (ron=1e-5,roff=0.1,von=0.5,voff=-1)
c.ca n12 n8 = 1.1e-9
c.cb n15 n14 = 1.1e-9
c.cin n6 n8 = 2.8e-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 = 108.2
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

l.lgate n1 n9 = 7.16e-9
l.ldrain n2 n5 = 1.0e-9
l.lsource n3 n7 = 2.29e-9

res.rlgate n1 n9 = 71.6
res.rldrain n2 n5 = 10
res.rlsource n3 n7 = 22.9

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=1e-6
res.rdrain n50 n16 = 5.7e-3, tc1=1.7e-2,tc2=3.2e-5
res.rgate n9 n20 = 1.06
res.rslc1 n5 n51 = 1e-6, tc1=1e-3,tc2=1e-7
res.rslc2 n5 n50 = 1e3
res.rsource n8 n7 = 6.5e-3, tc1=1e-3,tc2=1e-6
res.rvthres n22 n8 = 1, tc1=-5.3e-3,tc2=-1.2e-5
res.rvtemp n18 n19 = 1, tc1=-3.3e-3,tc2=1.3e-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

```

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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)*1e6/150))** 7))

}}

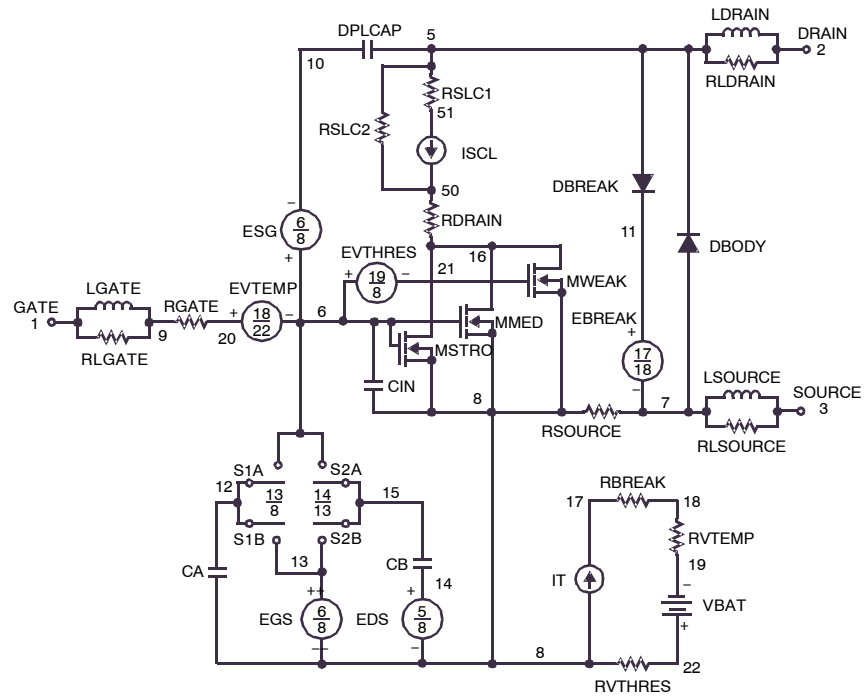


Figure 23.

SPICE THERMAL MODEL

REV 23 March 2002

FDP3652

```
CTHERM1 TH 6 1e-2
CTHERM2 6 5 1.5e-2
CTHERM3 5 4 2e-2
CTHERM4 4 3 2.1e-2
CTHERM5 3 2 2.2e-2
CTHERM6 2 TL 9e-2
```

```
RTHERM1 TH 6 2.7e-2
RTHERM2 6 5 2.8e-2
RTHERM3 5 4 7.8e-2
RTHERM4 4 3 9e-2
RTHERM5 3 2 2.7e-1
RTHERM6 2 TL 2.87e-1
```

SABER THERMAL MODEL

SABER thermal model FDP3652

template thermal_model th tl

thermal_c th, tl

```
{
ctherm.ctherm1 th 6 =1e-2
ctherm.ctherm2 6 5 =1.5e-2
ctherm.ctherm3 5 4 =2e-2
ctherm.ctherm4 4 3 =2.1e-2
ctherm.ctherm5 3 2 =2.2e-2
ctherm.ctherm6 2 tl =9e-2
```

```
rtherm.rtherm1 th 6 =2.7e-2
rtherm.rtherm2 6 5 =2.8e-2
rtherm.rtherm3 5 4 =7.8e-2
rtherm.rtherm4 4 3 =9e-2
rtherm.rtherm5 3 2 =2.7e-1
rtherm.rtherm6 2 tl =2.87e-1
}
```

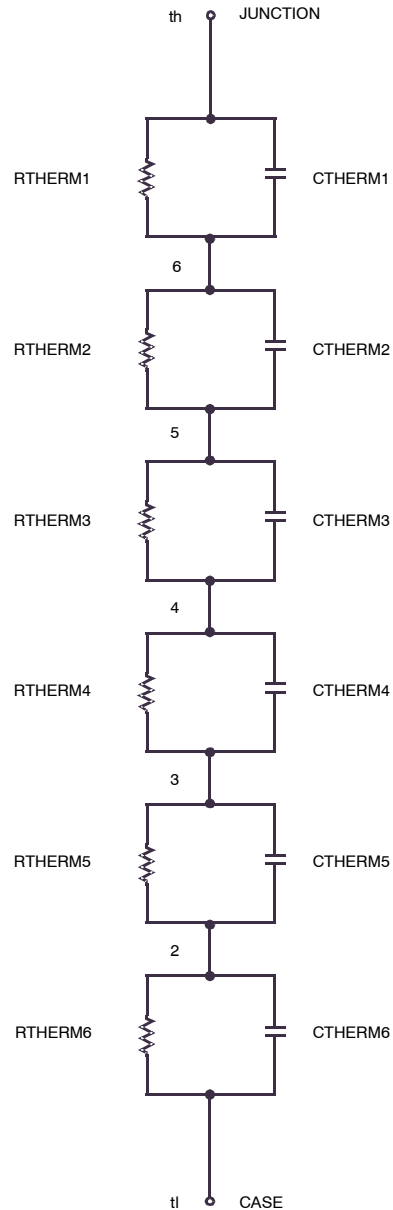
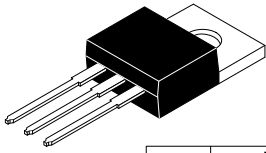


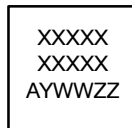
Figure 24.


TO-220-3LD
CASE 340AT
ISSUE B

DATE 08 AUG 2022

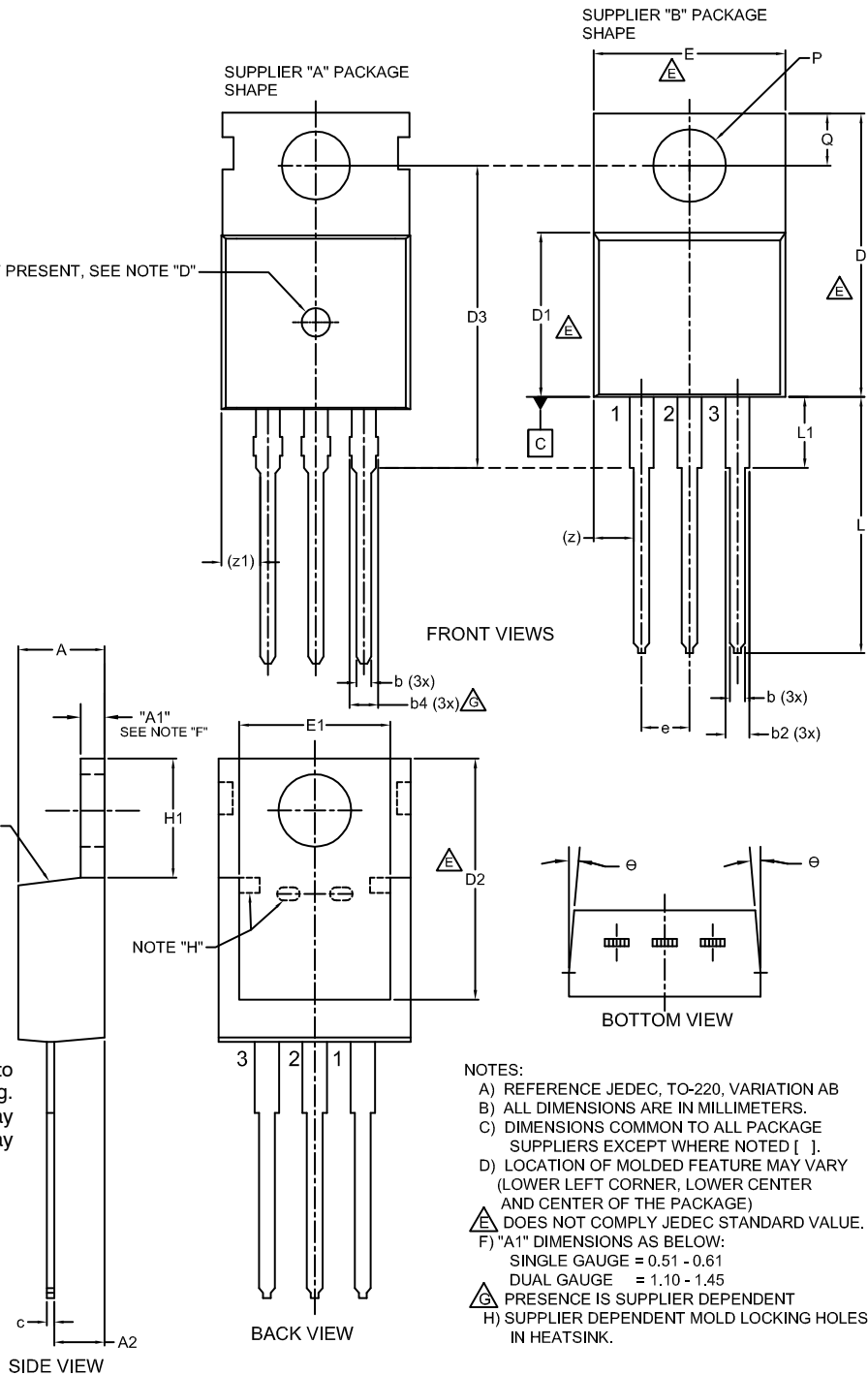
DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	4.00	--	4.70
A1	SEE NOTE "F"		
A2	2.10	--	2.85
b	0.55	--	1.00
b2	1.10	--	1.62
b4	1.42	--	1.62
c	0.36	--	0.60
D	13.90	--	16.30
D1	8.13	--	9.40
D2	11.50	--	14.30
D3	15.42	--	16.51
E	9.65	--	10.67
E1	7.59	--	8.65
e	2.40	--	2.67
H1	6.06	--	6.69
L	12.70	--	14.04
L1	2.70	--	4.10
P	3.50	--	4.00
Q	2.50	--	3.40
z	2.13 REF		
z1	2.06 REF		
θ	3°	--	5°

IF PRESENT, SEE NOTE "D"

GENERIC
MARKING DIAGRAM*


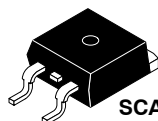
XXXX = Specific Device Code
A = Assembly Location
Y = Year
WW = Work Week
ZZ = Assembly Lot Code

*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.



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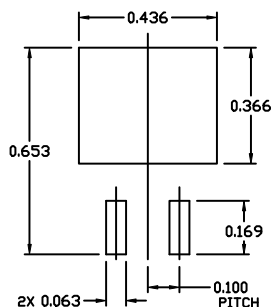
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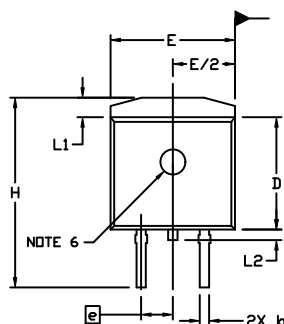
SCALE 1:1

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 ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

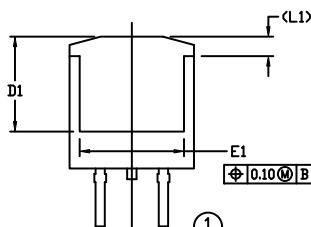
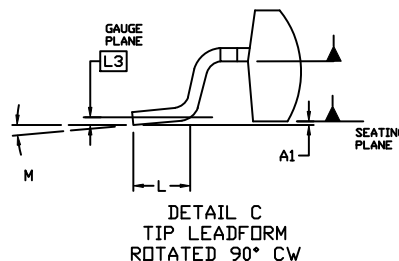
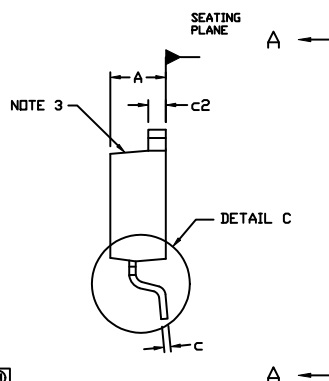


0.100 BSC

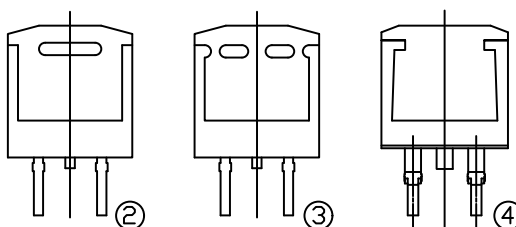
NOTES:

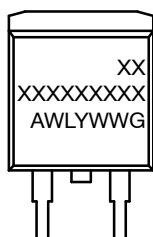
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
2. CONTROLLING DIMENSION: INCHES
3. CHAMFER OPTIONAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH. MOLD FLASH SHALL NOT EXCEED 0.005 PER SIDE. THESE DIMENSIONS ARE MEASURED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY AT DATUM H.
5. THERMAL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

DIM	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A	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
c	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	---
H	0.575	0.625	14.60	15.88
L	0.070	0.110	1.78	2.79
L1	---	0.066	---	1.68
L2	---	0.070	---	1.78
L3	0.010 BSC	---	0.25 BSC	---
M	0°	8°	0°	8°

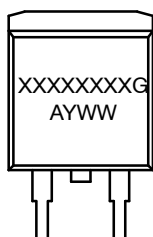


VIEW A-A


VIEW A-A
OPTIONAL CONSTRUCTIONS

GENERIC MARKING DIAGRAMS*


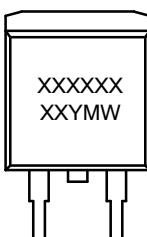
IC



Standard



Rectifier



SSG

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.

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