

MOSFET – Power, N-Channel, POWERTRENCH®

100 V, 80 A, 9 mΩ

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.), $V_{GS} = 10 \text{ V}$
- 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

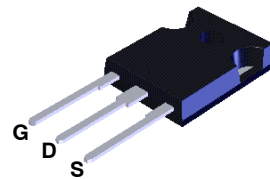
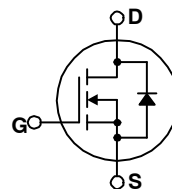
- Synchronous Rectification
- Battery Protection Circuit
- Motor Drives and Uninterruptible Power Supplies
- Micro Solar Inverter



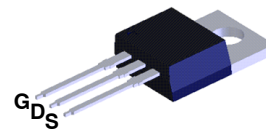
ON Semiconductor®

www.onsemi.com

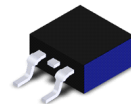
V_{DSS}	$R_{DS(ON)} \text{ MAX}$	$I_D \text{ MAX}$
100 V	9 mΩ	80 A



TO-247-3
CASE 340CK

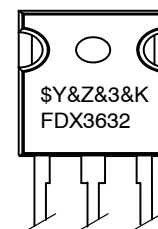


TO-220-3
CASE 340AT



D2PAK-3
CASE 418AJ

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.

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

Symbol	Parameter	Value	Unit
V_{DSS}	Drain to Source Voltage	100	V
V_{GS}	Gate to Source Voltage	± 20	V
I_D	Drain Current	- Continuous ($T_C < 111^\circ\text{C}$, $V_{GS} = 10\text{ V}$)	80
		- Continuous ($T_{amb} = 25^\circ\text{C}$, $V_{GS} = 10\text{ V}$, $R_{\theta JA} = 43^\circ\text{C/W}$)	12
I_D	Drain Current	- Pulsed	Figure 4
E_{AS}	Single Pulse Avalanche Energy (Note 1)	337	mJ
P_D	Power Dissipation	($T_C = 25^\circ\text{C}$)	310
		- Derate Above 25°C	2.07
T_J, T_{STG}	Operating and Storage Temperature Range	-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.

1. Starting $T_J = 25^\circ\text{C}$, $L = 0.12\text{mH}$, $I_{AS} = 75\text{ A}$, $V_{DD} = 80\text{ V}$.

THERMAL CHARACTERISTICS

Symbol	Parameter	Value	Unit
$R_{\theta JC}$	Thermal Resistance, Junction to Case, Max. TO-220, D ² -PAK, TO-247	0.48	$^\circ\text{C/W}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, Max. TO-220 (Note 2)	62	$^\circ\text{C/W}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, D ² -PAK, Max. 1 in ² copper pad area	43	$^\circ\text{C/W}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, Max. TO-247 (Note 2)	30	$^\circ\text{C/W}$

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

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

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
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OFF CHARACTERISTICS

B _{VDS}	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	2.0		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	

DYNAMIC CHARACTERISTICS

C _{iss}	Input Capacitance	V _{DS} = 25 V, V _{GS} = 0 V, f = 1 MHz		6000		pF
C _{oss}	Output Capacitance			820		pF
C _{rss}	Reverse Transfer Capacitance			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			20		nC
Q _{gd}	Gate to Drain "Miller" Charge			20		nC

RESISTIVE SWITCHING CHARACTERISTICS (V_{GS} = 10 V)

t _{ON}	Turn-On Time	V _{DD} = 50 V, I _D = 80 A, V _{GS} = 10 V, R _{GS} = 3.6 Ω			102	ns
t _{d(ON)}	Turn-On Delay Time			30		ns
t _r	Rise Time			39		ns
t _{d(OFF)}	Turn-Off Delay Time			96		ns
t _f	Fall Time			46		ns
t _{OFF}	Turn-Off Time				213	ns

DRAIN-SOURCE 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 A, dI _{SD} /dt = 100 A/μs			64	ns
Q _{RR}	Reverse Recovered Charge				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.

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TYPICAL CHARACTERISTICS

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

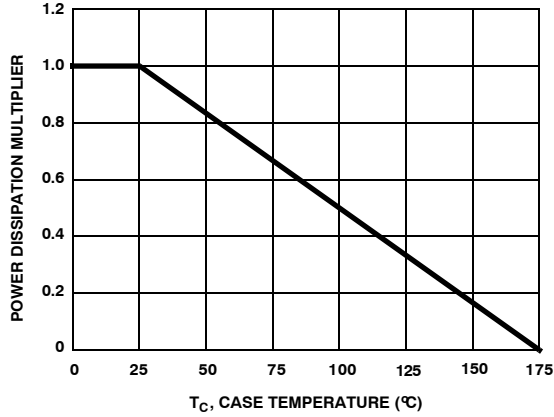


Figure 1. Normalized Power Dissipation vs. Ambient Temperature

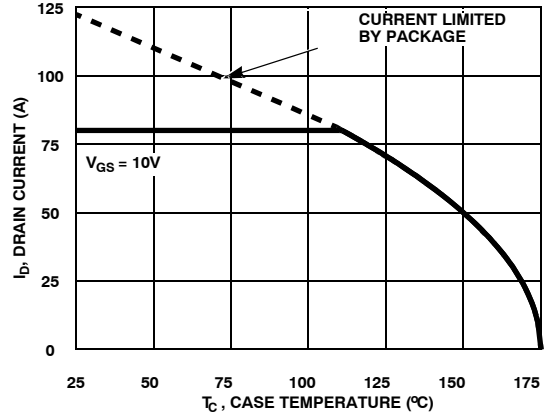


Figure 2. Maximum Continuous Drain Current vs. Case Temperature

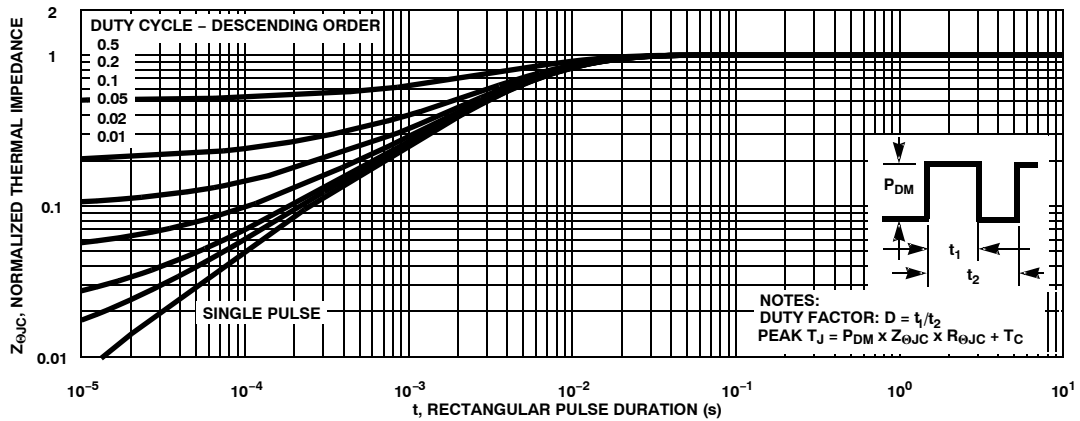


Figure 3. Normalized Maximum Transient Thermal Impedance

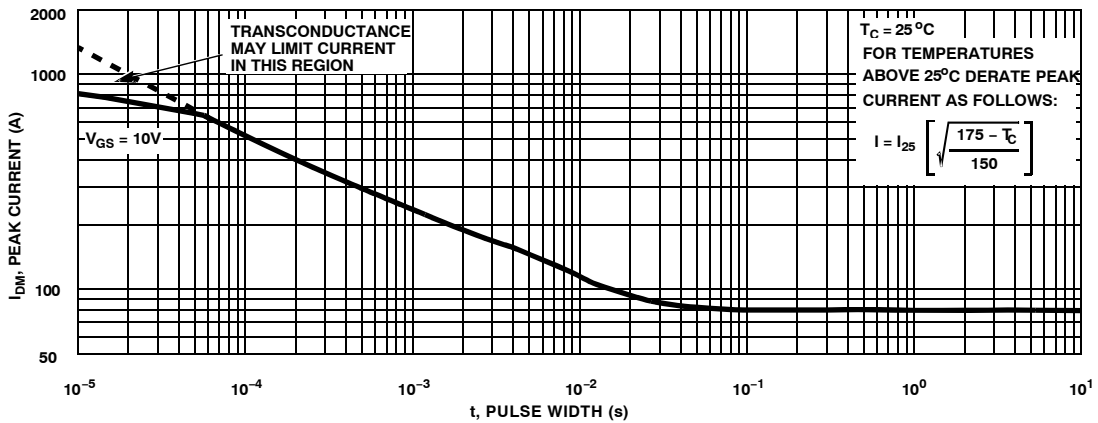


Figure 4. Peak Current Capability

TYPICAL CHARACTERISTICS (Continued)

T_C = 25°C unless otherwise noted

NOTE: Refer to ON Semiconductor Application Notes [AN-7514](#) and [AN-7515](#)

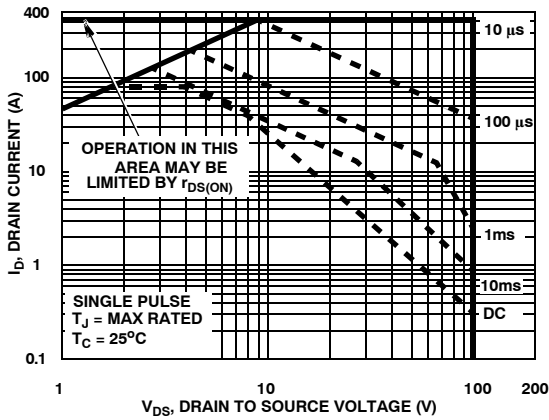


Figure 5. Forward Bias Safe Operating Area

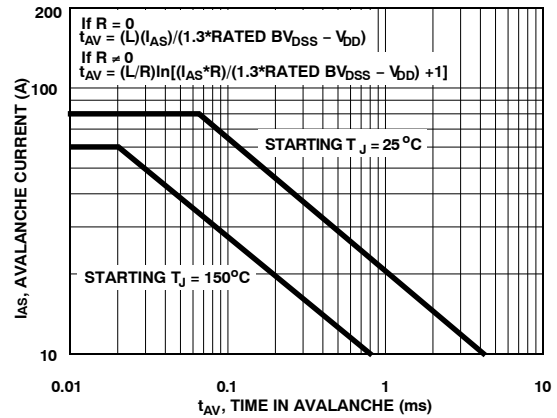


Figure 6. Unclamped Inductive Switching Capability

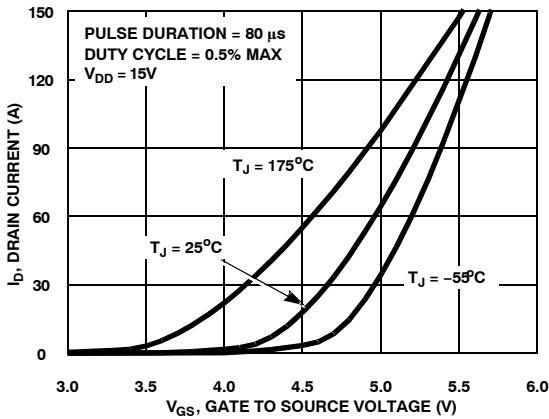


Figure 7. Transfer Characteristics

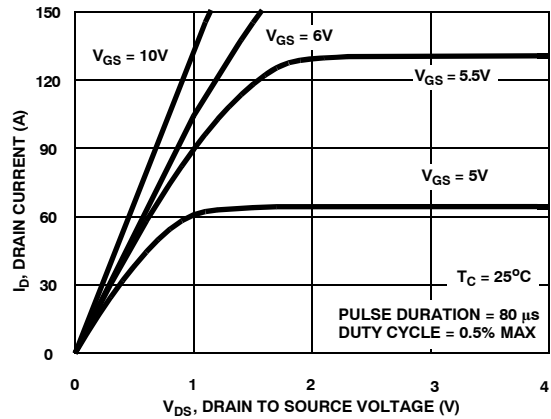


Figure 8. Saturation Characteristics

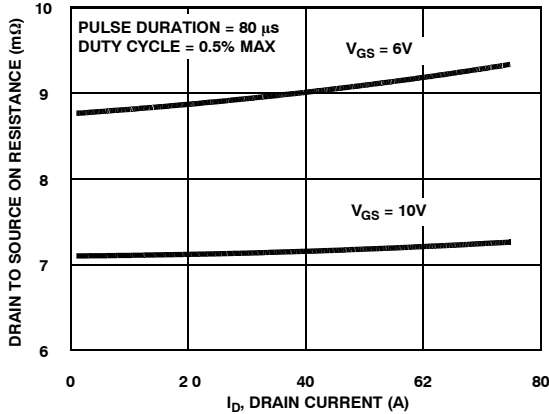


Figure 9. Drain to Source On Resistance vs Drain Current

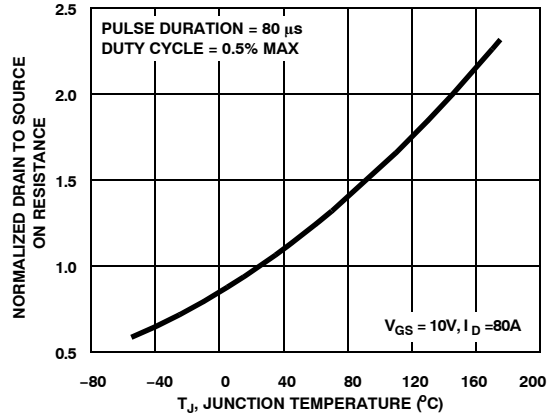


Figure 10. Normalized Drain to Source On Resistance vs Junction Temperature

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TYPICAL CHARACTERISTICS (Continued)

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

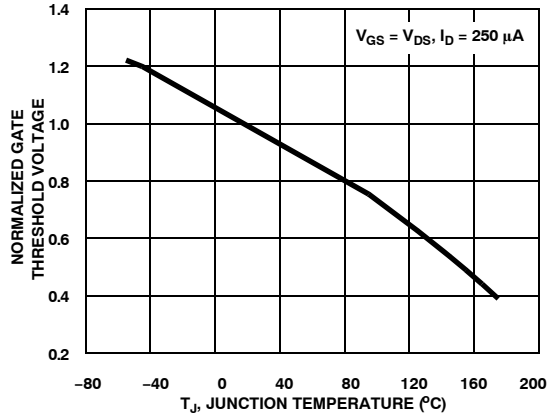


Figure 11. Normalized Gate Threshold Voltage vs. Junction Temperature

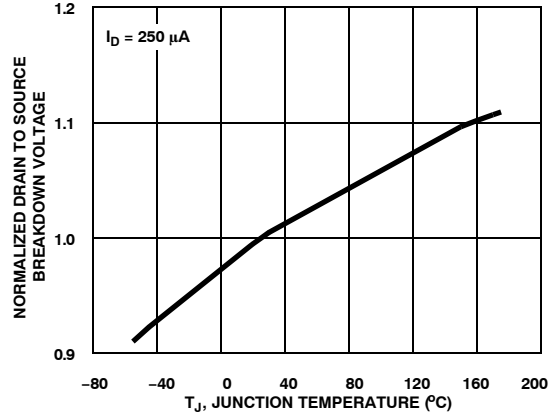


Figure 12. Normalized Drain to Source Breakdown Voltage vs. Junction Temperature

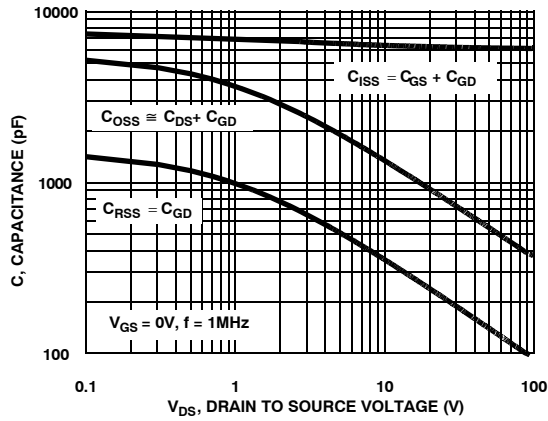


Figure 13. Capacitance vs. Drain to Source Voltage

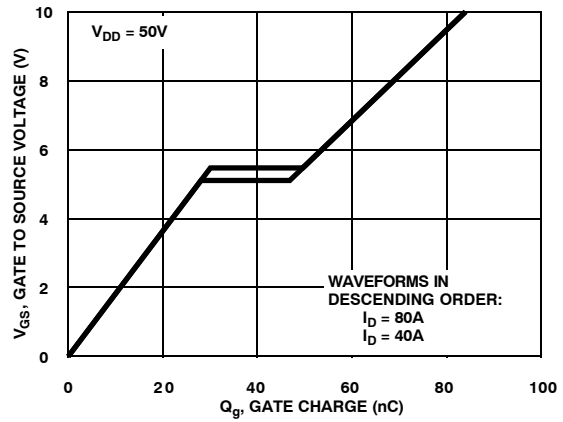


Figure 14. Gate Charge Waveforms for Constant Gate Currents

TEST CIRCUITS WAVEFORMS

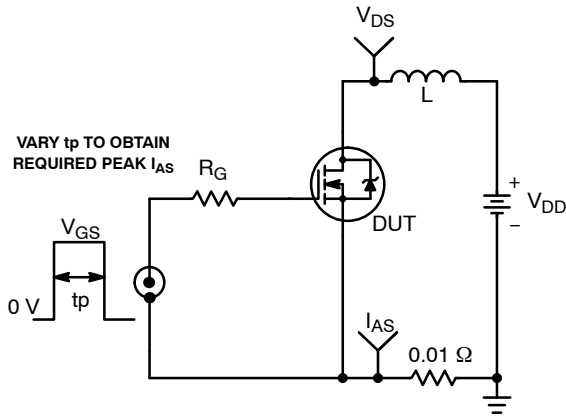


Figure 15. Unclamped Energy Test Circuit



Figure 16. Unclamped Energy Waveforms

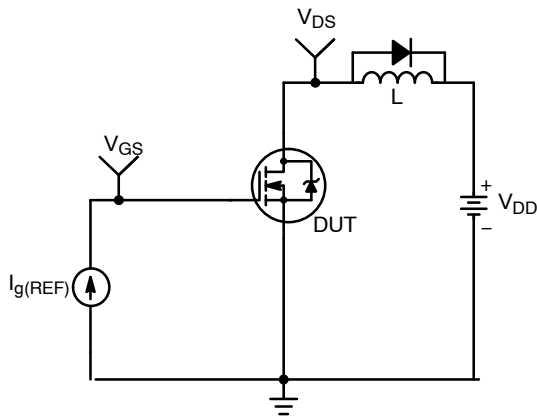


Figure 17. Gate Charge Test Circuit

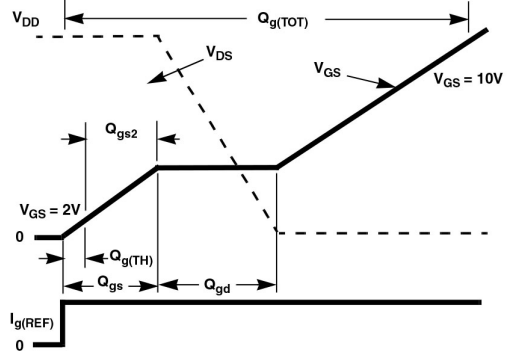


Figure 18. Gate Charge Waveforms

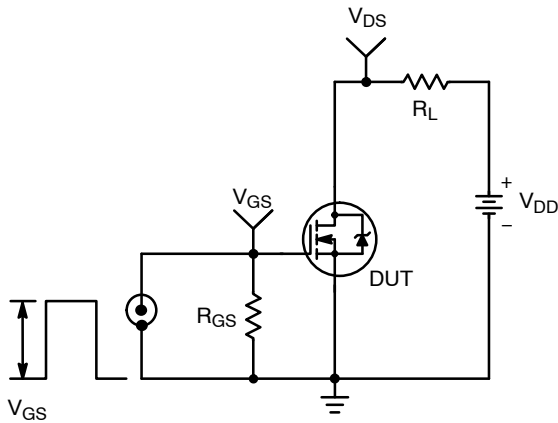


Figure 19. Switching Time Test Circuit

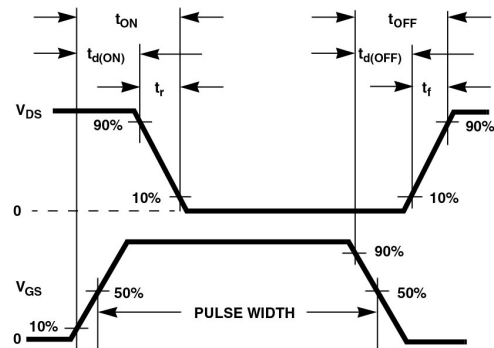


Figure 20. Switching Time Waveforms

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, PDM, 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.

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

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 parts current and maximum power dissipation ratings. Precise determination of PDM 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.

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.

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

Area in in².

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

Area in cm².

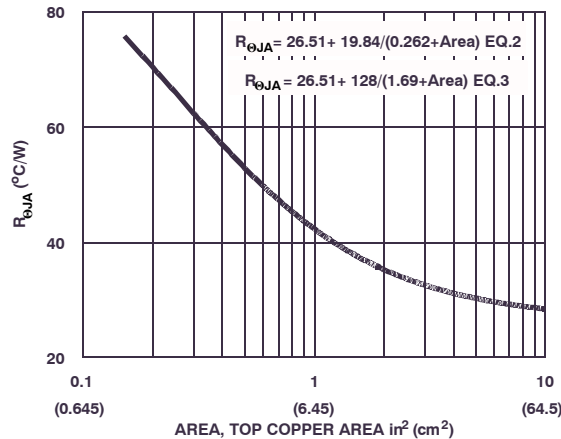


Figure 21. Thermal Resistance vs. Mounting Pad Area

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
 Evttemp 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 RdrainMOD 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)

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.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.

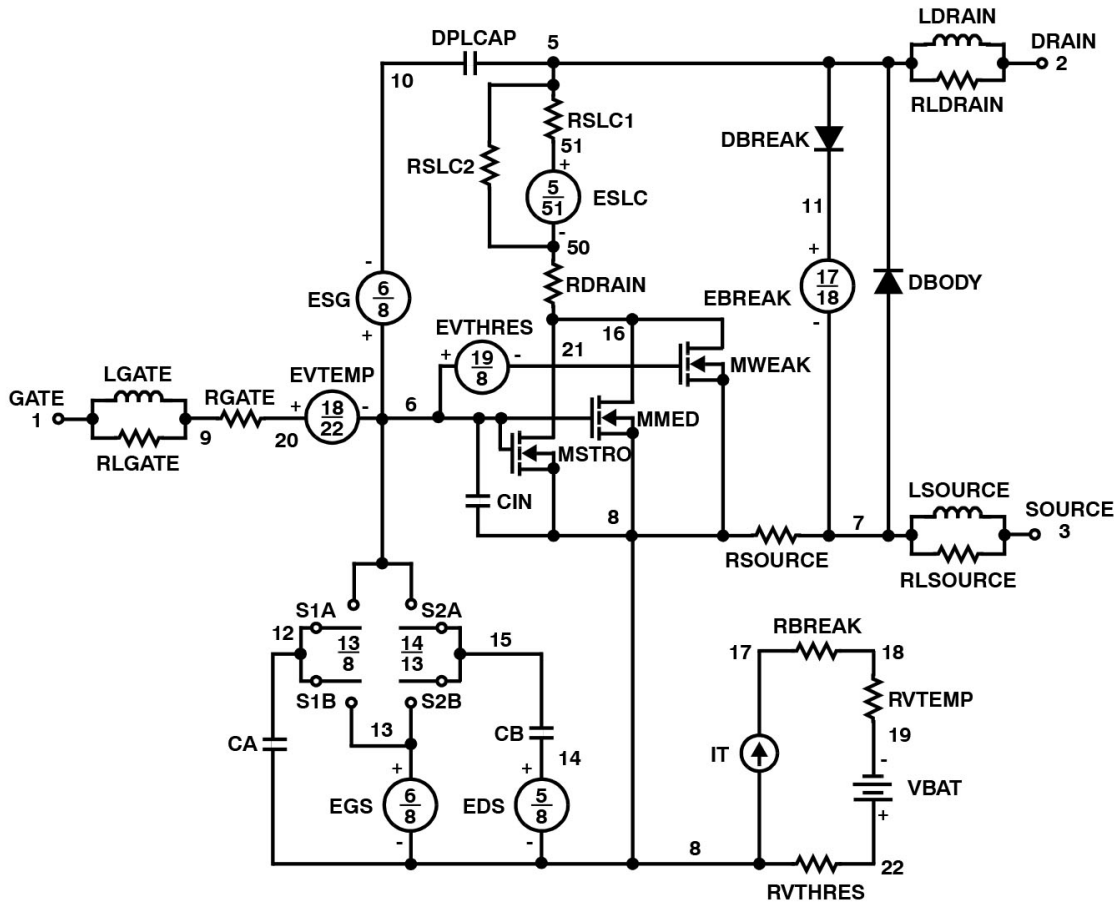


Figure 22. PSPICE Electrical Model

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,trs1=3.0e-3,trs2=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
l.lgate n1 n9 = 5.61e-9
l.l drain n2 n5 = 1.0e-9
l.l source n3 n7 = 2.7e-9

res.rlgate n1 n9 = 56.1
res.rl drain n2 n5 = 10
res.rl source 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.r drain 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
```

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

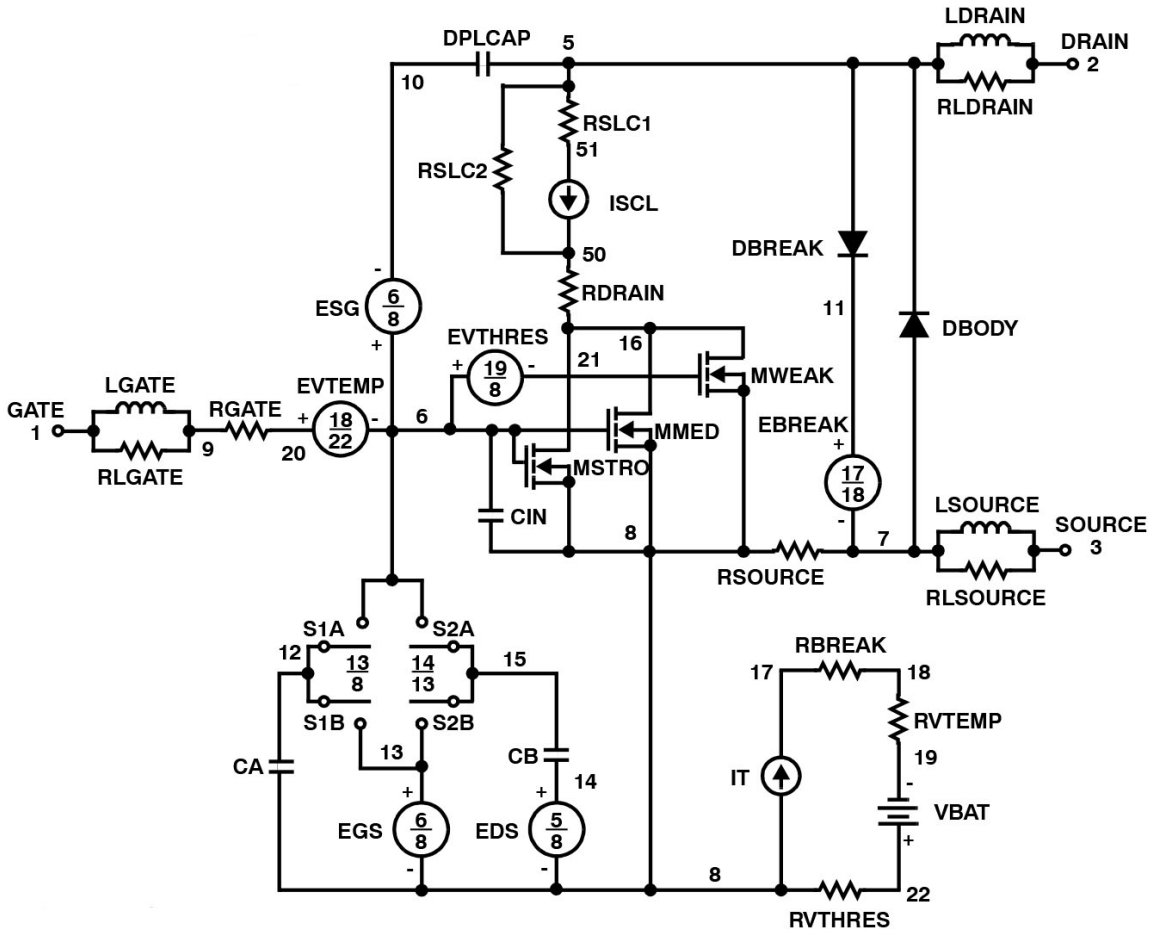


Figure 23. SABER Electrical Model

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
 RTHERM6 2 TL 1.5e-1

SABER Thermal Model

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
}
```

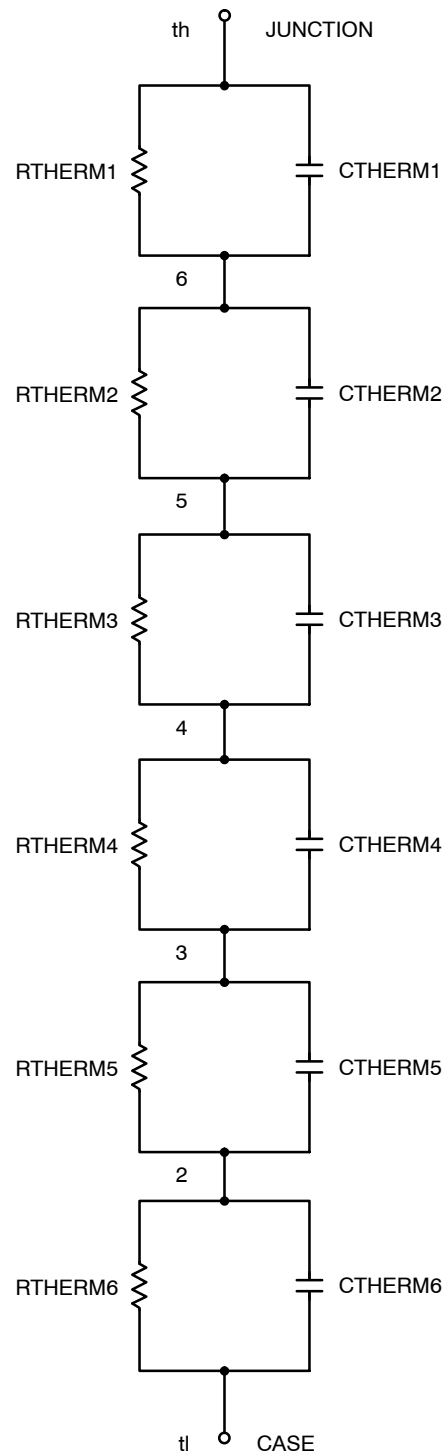
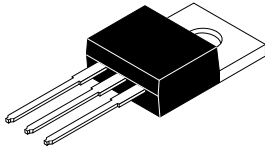


Figure 24. Thermal Model

MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

ON Semiconductor®



Scale 1:1

TO-220-3LD CASE 340AT ISSUE A

DATE 03 OCT 2017



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TO-247-3LD SHORT LEAD
CASE 340CK
ISSUE A

DATE 31 JAN 2019



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		
	MIN	NOM	MAX
A	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
c	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
e	~	5.56	~
L	15.75	16.00	16.25
L1	3.69	3.81	3.93
ØP	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

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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

ON Semiconductor®



SCALE 1:1

D²PAK-3 (TO-263, 3-LEAD)

CASE 418AJ

ISSUE F

DATE 11 MAR 2021



RECOMMENDED MOUNTING FOOTPRINT

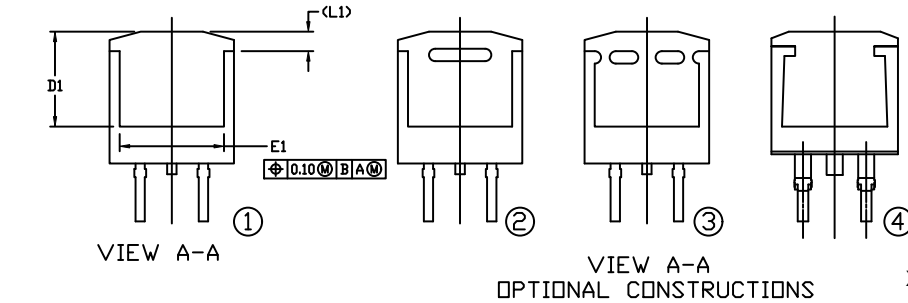
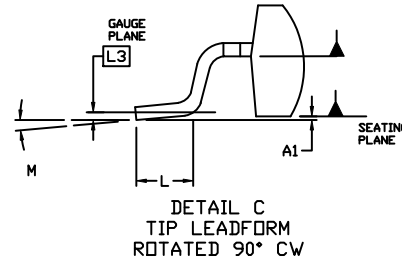
For additional information on our Pb-free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERM/T.



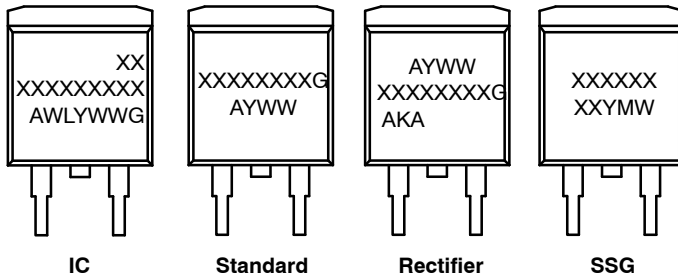
NOTES:

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
- CONTROLLING DIMENSION: INCHES
- CHAMFER OPTIONAL.
- 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.
- THERMAL PAD CONTOUR IS OPTIONAL WITHIN DIMENSIONS E, L1, D1, AND E1.
- OPTIONAL MOLD FEATURE.
- 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*



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	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.
DESCRIPTION:	D ² PAK-3 (TO-263, 3-LEAD)	PAGE 1 OF 1

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