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N-Channel PowerTrench® MOSFET
100V, 80A, 9mΩ

March 2012

FDB3632_F085

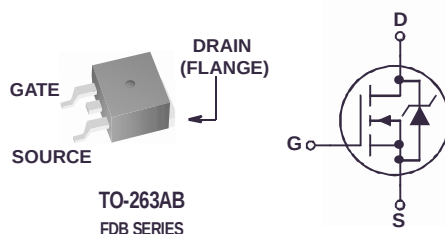
Features

- $r_{DS(ON)} = 7.5m\Omega$ (Typ.), $V_{GS} = 10V$, $I_D = 80A$
- $Q_g(tot) = 84nC$ (Typ.), $V_{GS} = 10V$
- Low Miller Charge
- Low Q_{RR} Body Diode
- UIS Capability (Single Pulse and Repetitive Pulse)
- Qualified to AEC Q101
- RoHS Compliant



Applications

- DC/DC converters and Off-Line UPS
- Distributed Power Architectures and VRMs
- Primary Switch for 24V and 48V Systems
- High Voltage Synchronous Rectifier
- Direct Injection / Diesel Injection Systems
- 42V Automotive Load Control
- Electronic Valve Train Systems



MOSFET Maximum Ratings $T_C = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Ratings	Units
V_{DSS}	Drain to Source Voltage	100	V
V_{GS}	Gate to Source Voltage	± 20	V
I_D	Drain Current		
	Continuous ($T_C < 111^\circ C$, $V_{GS} = 10V$)	80	A
	Continuous ($T_{amb} = 25^\circ C$, $V_{GS} = 10V$, $R_{\theta JA} = 43^\circ C/W$)	12	A
	Pulsed	Figure 4	A
E_{AS}	Single Pulse Avalanche Energy (Note 1)	338	mJ
P_D	Power dissipation	310	W
	Derate above $25^\circ C$	2.07	W/ $^\circ C$
T_J, T_{STG}	Operating and Storage Temperature	-55 to +175	$^\circ C$

Thermal Characteristics

$R_{\theta JC}$	Thermal Resistance Junction to Case TO-220, TO-263, TO-262	0.48	$^\circ C/W$
$R_{\theta JA}$	Thermal Resistance Junction to Ambient TO-220, TO-262 (Note 2)	62	$^\circ C/W$
$R_{\theta JA}$	Thermal Resistance Junction to Ambient TO-263, 1in ² copper pad area	43	$^\circ C/W$

This product has been designed to meet the extreme test conditions and environment demanded by the automotive industry. For a copy of the requirements, see AEC Q101 at: <http://www.aecouncil.com/>
Reliability data can be found at: <http://www.fairchildsemi.com/products/discrete/reliability/index.html>.
All Fairchild Semiconductor products are manufactured, assembled and tested under ISO9000 and QS9000 quality systems certification.

Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
FDB3632	FDB3632_F085	TO-263AB	330mm	24mm	800 units

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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
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Off Characteristics

B_{VDS}	Drain to Source Breakdown Voltage	$I_D = 250\mu\text{A}$, $V_{GS} = 0\text{V}$	100	-	-	V
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS} = 80\text{V}$ $V_{GS} = 0\text{V}$ $T_C = 150^\circ\text{C}$	-	-	1	μA
I_{GSS}	Gate to Source Leakage Current	$V_{GS} = \pm 20\text{V}$	-	-	± 100	nA

On Characteristics

$V_{GS(TH)}$	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}$, $I_D = 250\mu\text{A}$	2	-	4	V
$r_{DS(ON)}$	Drain to Source On Resistance	$I_D = 80\text{A}$, $V_{GS} = 10\text{V}$ $I_D = 80\text{A}$, $V_{GS} = 10\text{V}$, $T_C = 175^\circ\text{C}$	-	0.0075	0.009	Ω
			-	0.018	0.022	

Dynamic Characteristics

C_{ISS}	Input Capacitance	$V_{DS} = 25\text{V}$, $V_{GS} = 0\text{V}$, $f = 1\text{MHz}$	-	6000	-	pF
C_{OSS}	Output Capacitance		-	820	-	pF
C_{RSS}	Reverse Transfer Capacitance		-	200	-	pF
$Q_{g(TOT)}$	Total Gate Charge at 10V	$V_{GS} = 0\text{V}$ to 10V	-	84	110	nC
$Q_{g(TH)}$	Threshold Gate Charge	$V_{GS} = 0\text{V}$ to 2V	-	11	14	nC
Q_{gs}	Gate to Source Gate Charge	$V_{DD} = 50\text{V}$ $I_D = 80\text{A}$ $I_g = 1.0\text{mA}$	-	30	-	nC
Q_{gs2}	Gate Charge Threshold to Plateau		-	20	-	nC
Q_{gd}	Gate to Drain "Miller" Charge		-	20	-	nC

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

t_{ON}	Turn-On Time	$V_{DD} = 50\text{V}$, $I_D = 80\text{A}$ $V_{GS} = 10\text{V}$, $R_{GS} = 3.6\Omega$	-	-	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	$I_{SD} = 80\text{A}$	-	-	1.25	V
		$I_{SD} = 40\text{A}$	-	-	1.0	V
t_{rr}	Reverse Recovery Time	$I_{SD} = 75\text{A}$, $dI_{SD}/dt = 100\text{A}/\mu\text{s}$	-	-	64	ns
Q_{RR}	Reverse Recovered Charge	$I_{SD} = 75\text{A}$, $dI_{SD}/dt = 100\text{A}/\mu\text{s}$	-	-	120	nC

Notes:

- 1: Starting $T_J = 25^\circ\text{C}$, $L = 0.12\text{mH}$, $I_{AS} = 75\text{A}$.
2: Pulse Width = 100s

Typical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

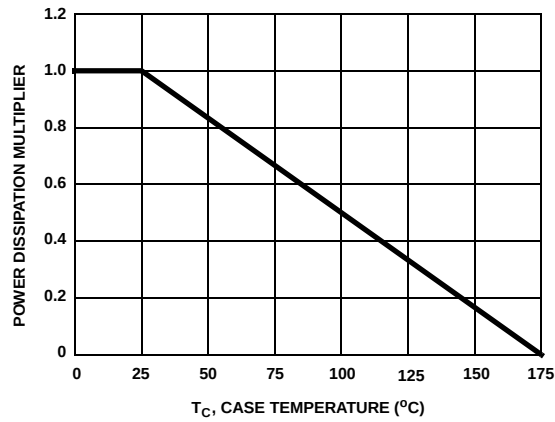


Figure 1. Normalized Power Dissipation vs Ambient Temperature

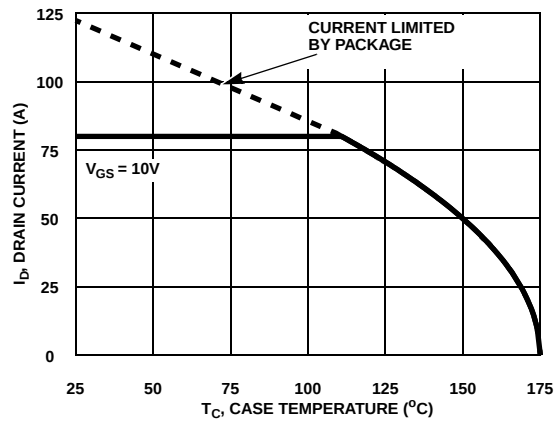


Figure 2. Maximum Continuous Drain Current vs Case Temperature

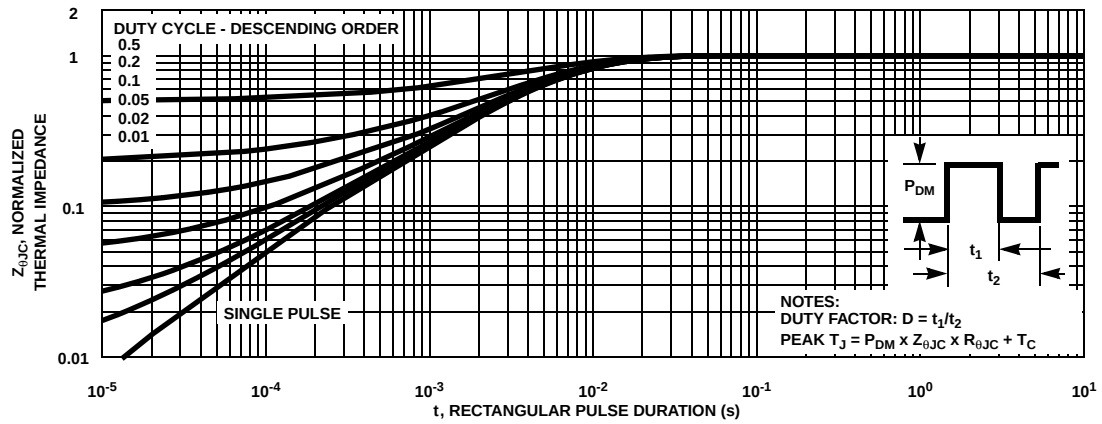


Figure 3. Normalized Maximum Transient Thermal Impedance

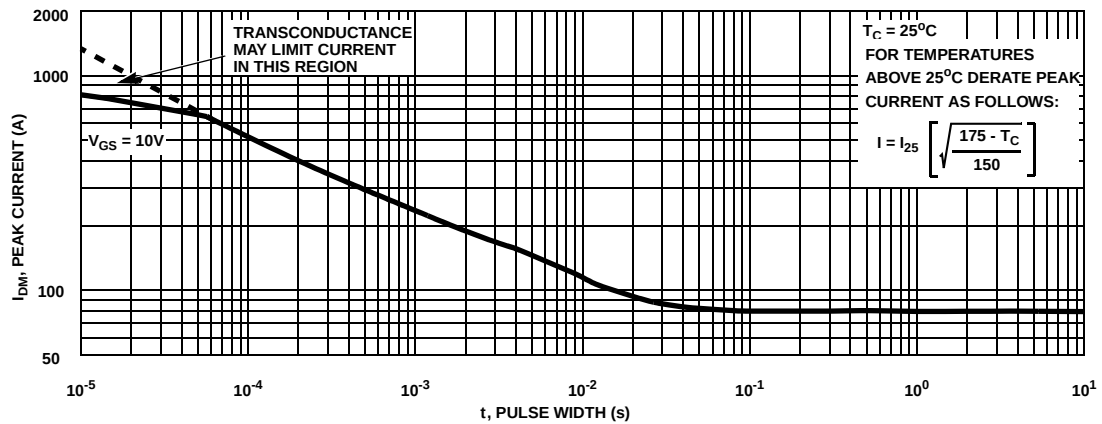


Figure 4. Peak Current Capability

Typical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

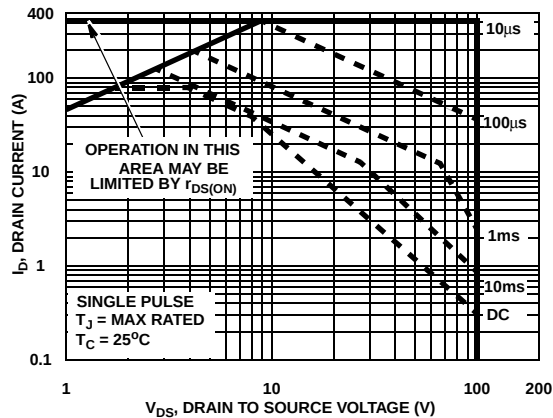
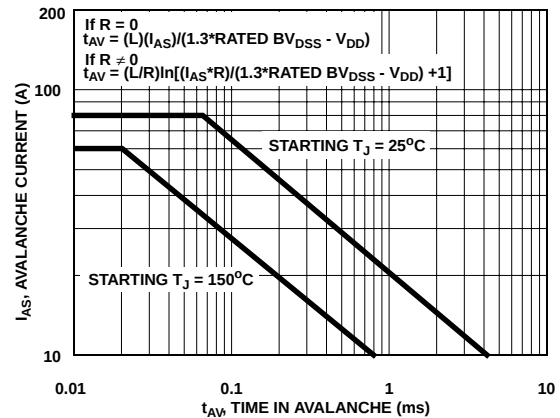


Figure 5. Forward Bias Safe Operating Area



NOTE: Refer to Fairchild Application Notes AN7514 and AN7515

Figure 6. Unclamped Inductive Switching Capability

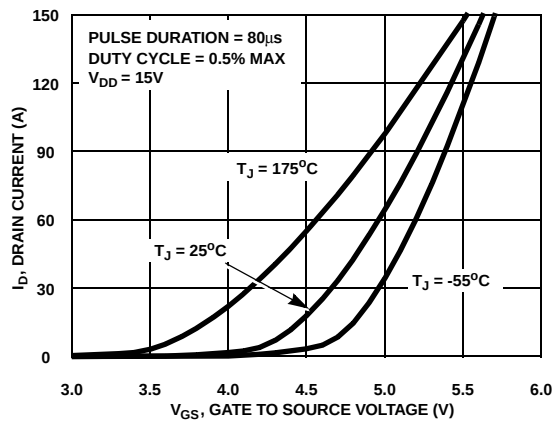


Figure 7. Transfer Characteristics

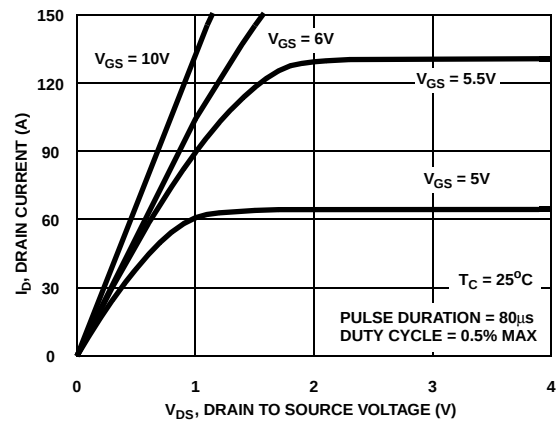


Figure 8. Saturation Characteristics

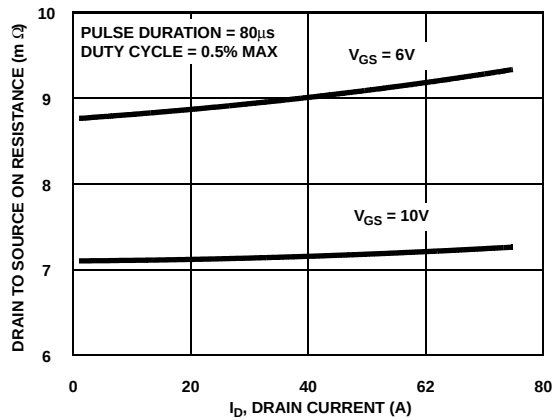


Figure 9. Drain to Source On Resistance vs Drain Current

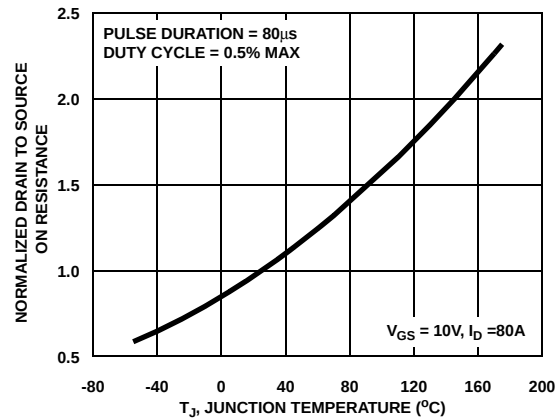


Figure 10. Normalized Drain to Source On Resistance vs Junction Temperature

Typical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

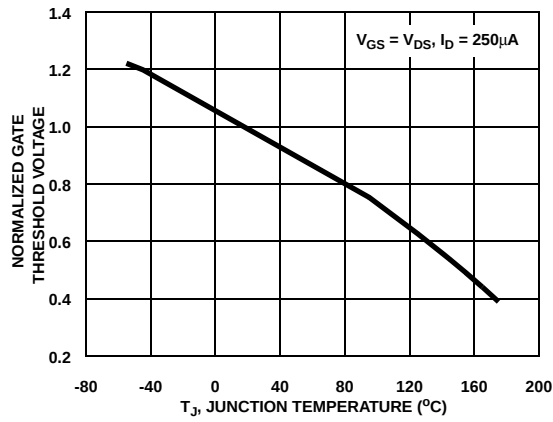


Figure 11. Normalized Gate Threshold Voltage vs Junction Temperature

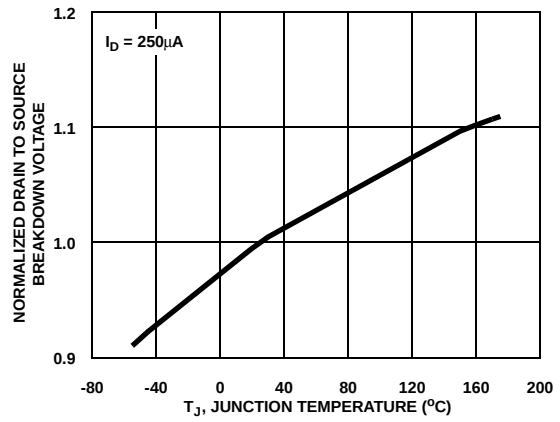


Figure 12. Normalized Drain to Source Breakdown Voltage vs Junction Temperature

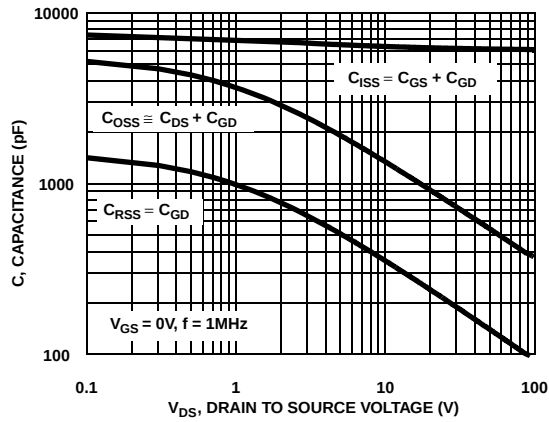


Figure 13. Capacitance vs Drain to Source Voltage

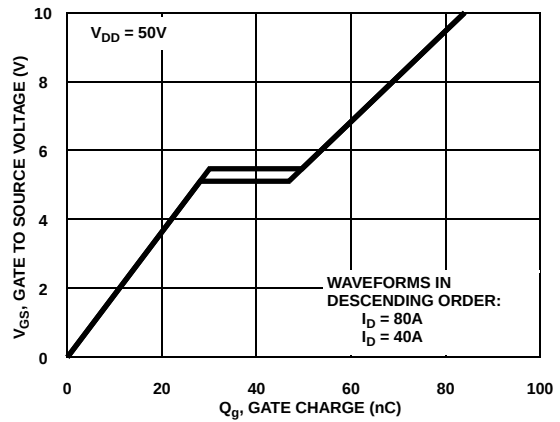


Figure 14. Gate Charge Waveforms for Constant Gate Currents

Test Circuits and Waveforms

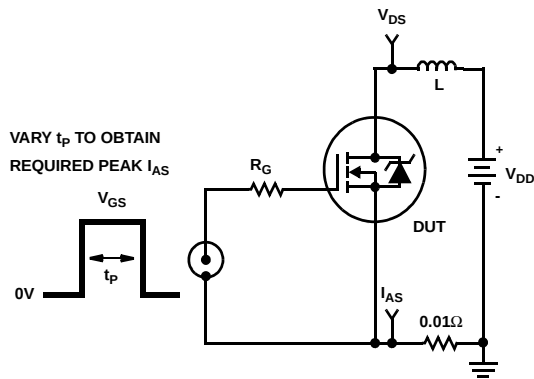


Figure 15. Unclamped Energy Test Circuit

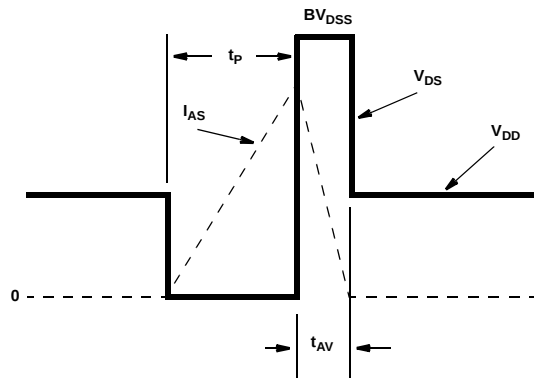


Figure 16. Unclamped Energy Waveforms

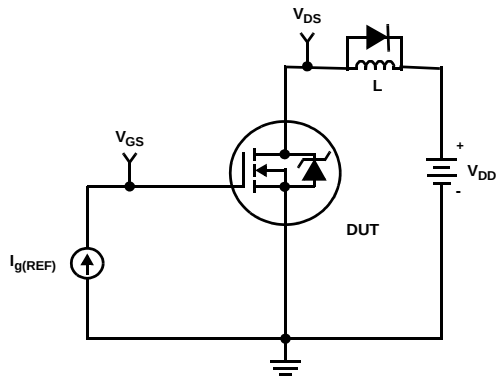


Figure 17. Gate Charge Test Circuit

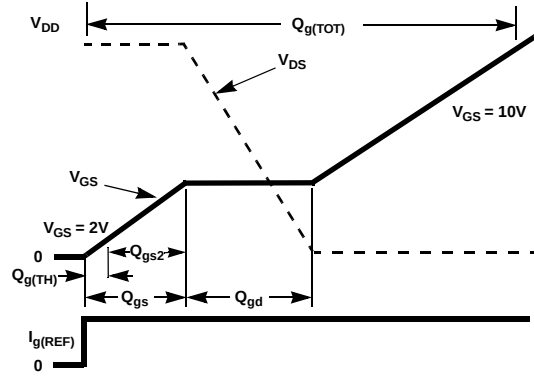


Figure 18. Gate Charge Waveforms

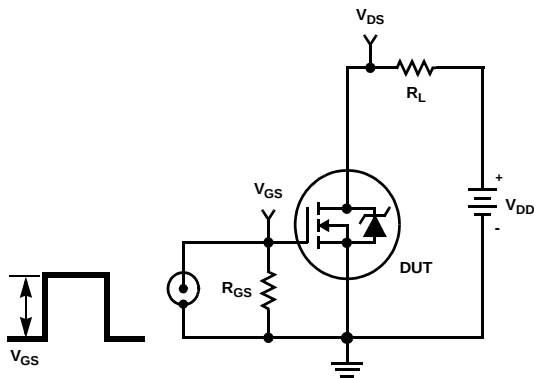


Figure 19. Switching Time Test Circuit

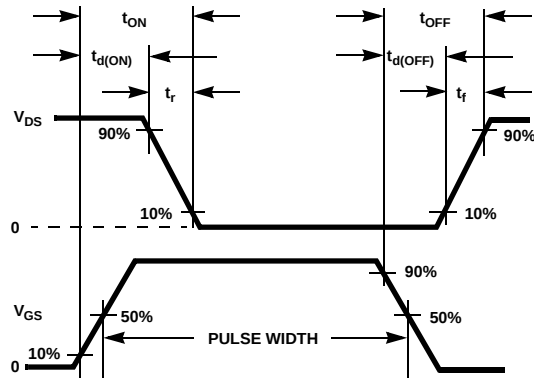


Figure 20. Switching Time Waveforms

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.

Fairchild provides thermal information to assist the designer's preliminary application evaluation. Figure 21 defines the $R_{\theta JA}$ for the device as a function of the top copper (component side) area. This is for a horizontally positioned FR-4 board with 1oz copper after 1000 seconds of steady state power with no air flow. This graph provides the necessary information for calculation of the steady state junction temperature or power dissipation. Pulse applications can be evaluated using the Fairchild device Spice thermal model or manually utilizing the normalized maximum transient thermal impedance curve.

Thermal resistances corresponding to other copper areas can be obtained from Figure 21 or by calculation using Equation 2 or 3. Equation 2 is used for copper area defined in inches square and equation 3 is for area in centimeters square. The area, in square inches or square centimeters is the top copper area including the gate and source pads.

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

Area in Inches Squared

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

Area in Centimeters Squared

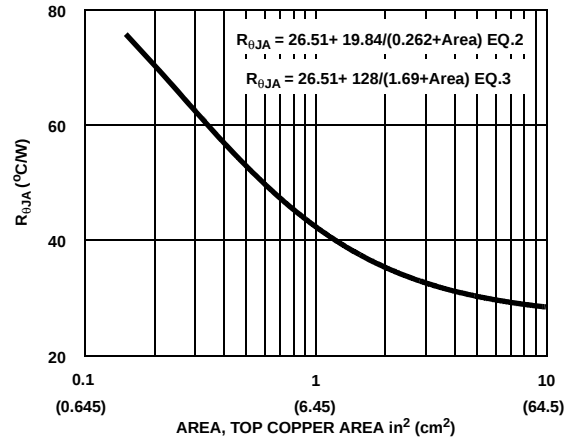


Figure 21. Thermal Resistance vs Mounting Pad Area

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 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)

.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)

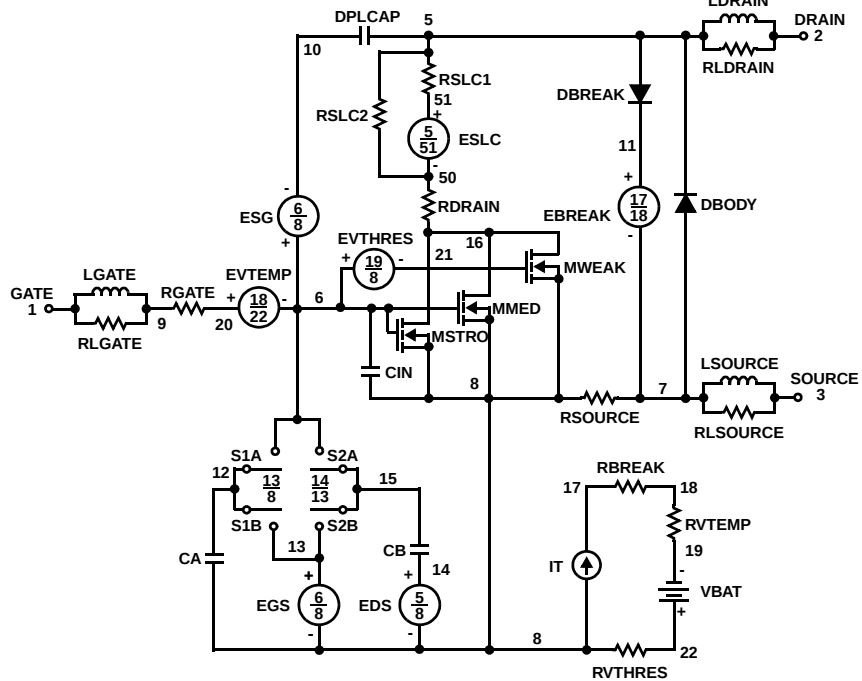
.MODEL S1BMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-2 VOFF=-4)

.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.



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

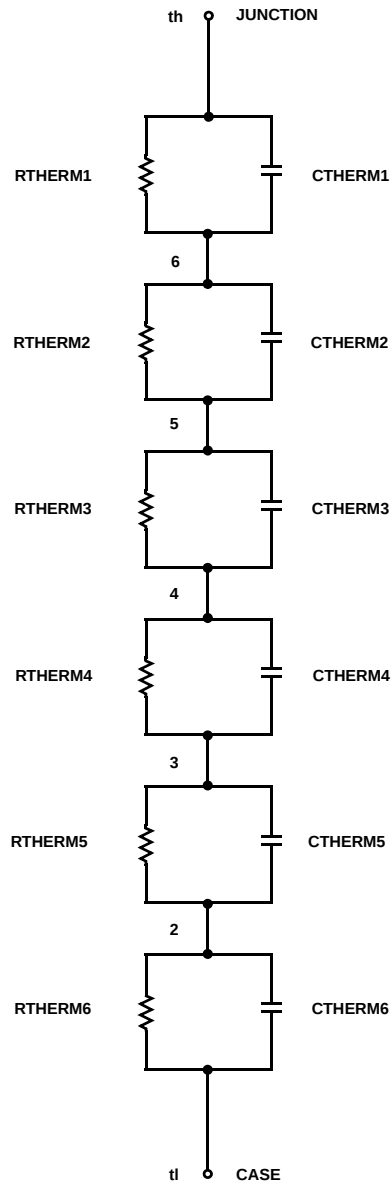
SABER thermal model FDB3632

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thermal_c th, tl

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  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
}
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Build it Now™	Green FPS™	QS™	TinyCalc™
CorePLUS™	Green FPS™ e-Series™	Quiet Series™	TinyLogic®
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CROSSVOLT™	GTO™		TinyPower™
CTL™	IntelliMAX™	Saving our world, 1mW/W/kW at a time™	TinyPWM™
Current Transfer Logic™	ISOPANAR™	SignalWise™	TinyWire™
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Fairchild®	MillerDrive™	SuperSOT™-3	Ultra FRFET™
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105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

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