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N-Channel PowerTrench® MOSFET
150V, 29A, 54mΩ

Features

- $r_{DS(ON)} = 45\text{m}\Omega$ (Typ.), $V_{GS} = 10\text{V}$, $I_D = 9\text{A}$
- $Q_g(\text{tot}) = 26\text{nC}$ (Typ.), $V_{GS} = 10\text{V}$
- Low Miller Charge
- Low Q_{RR} Body Diode
- UIS Capability (Single Pulse and Repetitive Pulse)

Applications

- DC/DC converters and Off-Line UPS
- Distributed Power Architectures and VRMs
- Primary Switch for 24V and 48V Systems
- High Voltage Synchronous Rectifier

Formerly developmental type 82860



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

Symbol	Parameter	Ratings	Units
V_{DSS}	Drain to Source Voltage	150	V
V_{GS}	Gate to Source Voltage	± 20	V
I_D	Drain Current Continuous ($T_C = 25^\circ\text{C}$, $V_{GS} = 10\text{V}$)	29	A
	Continuous ($T_C = 100^\circ\text{C}$, $V_{GS} = 10\text{V}$)	20	A
	Continuous ($T_{amb} = 25^\circ\text{C}$, $V_{GS} = 10\text{V}$, $R_{\theta JA} = 43^\circ\text{C/W}$)	4	A
	Pulsed	Figure 4	A
E_{AS}	Single Pulse Avalanche Energy (Note 1)	36	mJ
P_D	Power dissipation	135	W
	Derate above 25°C	0.9	W/ $^\circ\text{C}$
T_J , T_{STG}	Operating and Storage Temperature	-55 to 175	$^\circ\text{C}$

Thermal Characteristics

$R_{\theta JC}$	Thermal Resistance Junction to Case, TO-263	1.11	$^\circ\text{C/W}$
$R_{\theta JA}$	Thermal Resistance Junction to Ambient, TO-263 (Note 2)	62	$^\circ\text{C/W}$
$R_{\theta JA}$	Thermal Resistance Junction to Ambient TO-263, 1in ² copper pad area	43	$^\circ\text{C/W}$

Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
FDB2572	FDB2572	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

V_{VDSS}	Drain to Source Breakdown Voltage	$I_D = 250\mu\text{A}, V_{\text{GS}} = 0\text{V}$	150	-	-	V
I_{DSS}	Zero Gate Voltage Drain Current	$V_{\text{DS}} = 120\text{V}$	-	-	1	μA
		$V_{\text{GS}} = 0\text{V}$	$T_C = 150^\circ\text{C}$	-	250	
I_{GSS}	Gate to Source Leakage Current	$V_{\text{GS}} = \pm 20\text{V}$	-	-	± 100	nA

On Characteristics

$V_{\text{GS(TH)}}$	Gate to Source Threshold Voltage	$V_{\text{GS}} = V_{\text{DS}}, I_D = 250\mu\text{A}$	2	-	4	V
$r_{\text{DS(ON)}}$	Drain to Source On Resistance	$I_D = 9\text{A}, V_{\text{GS}} = 10\text{V}$	-	0.045	0.054	Ω
		$I_D = 4\text{A}, V_{\text{GS}} = 6\text{V}$	-	0.050	0.075	
		$I_D = 9\text{A}, V_{\text{GS}} = 10\text{V}, T_C = 175^\circ\text{C}$	-	0.126	0.146	

Dynamic Characteristics

C_{ISS}	Input Capacitance	$V_{\text{DS}} = 25\text{V}, V_{\text{GS}} = 0\text{V}, f = 1\text{MHz}$	-	1770	-	pF	
C_{OSS}	Output Capacitance		-	183	-	pF	
C_{RSS}	Reverse Transfer Capacitance		-	40	-	pF	
$Q_{\text{g(TOT)}}$	Total Gate Charge at 10V	$V_{\text{GS}} = 0\text{V to } 10\text{V}$	-	26	34	nC	
$Q_{\text{g(TH)}}$	Threshold Gate Charge	$V_{\text{GS}} = 0\text{V to } 2\text{V}$	$V_{\text{DD}} = 75\text{V}$	-	3.3	4.3	nC
Q_{gs}	Gate to Source Gate Charge	$I_D = 9\text{A}$	$I_g = 1.0\text{mA}$	-	8	-	nC
Q_{gs2}	Gate Charge Threshold to Plateau		$I_g = 1.0\text{mA}$	-	5	-	nC
Q_{gd}	Gate to Drain "Miller" Charge		$I_g = 1.0\text{mA}$	-	6	-	nC

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

t_{ON}	Turn-On Time	$V_{\text{DD}} = 75\text{V}, I_D = 9\text{A}$ $V_{\text{GS}} = 10\text{V}, R_{\text{GS}} = 11.0\Omega$	-	-	36	ns
$t_{\text{d(ON)}}$	Turn-On Delay Time		-	11	-	ns
t_r	Rise Time		-	14	-	ns
$t_{\text{d(OFF)}}$	Turn-Off Delay Time		-	31	-	ns
t_f	Fall Time		-	14	-	ns
t_{OFF}	Turn-Off Time		-	-	66	ns

Drain-Source Diode Characteristics

V_{SD}	Source to Drain Diode Voltage	$I_{\text{SD}} = 9\text{A}$	-	-	1.25	V
		$I_{\text{SD}} = 4\text{A}$	-	-	1.0	V
t_{rr}	Reverse Recovery Time	$I_{\text{SD}} = 9\text{A}, dI_{\text{SD}}/dt = 100\text{A}/\mu\text{s}$	-	-	74	ns
Q_{RR}	Reverse Recovered Charge	$I_{\text{SD}} = 9\text{A}, dI_{\text{SD}}/dt = 100\text{A}/\mu\text{s}$	-	-	169	nC

Notes:

1: Starting $T_J = 25^\circ\text{C}$, $L = 0.2\text{mH}$, $I_{\text{AS}} = 19\text{A}$.

2: Pulse Width = 100s

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

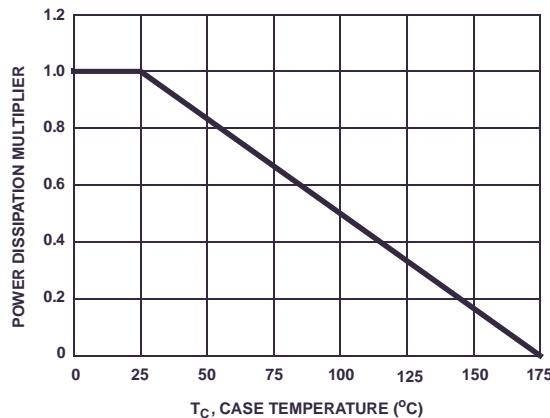


Figure 1. Normalized Power Dissipation vs Ambient Temperature

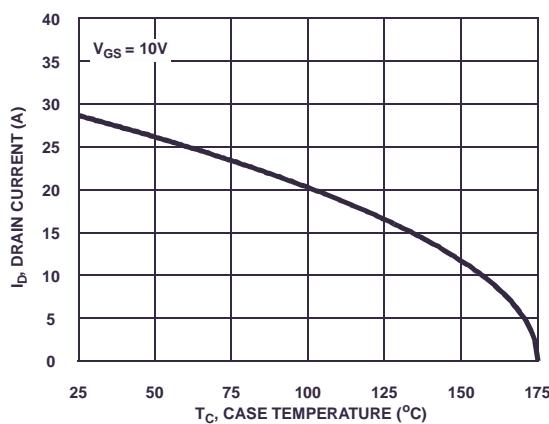


Figure 2. Maximum Continuous Drain Current vs Case Temperature

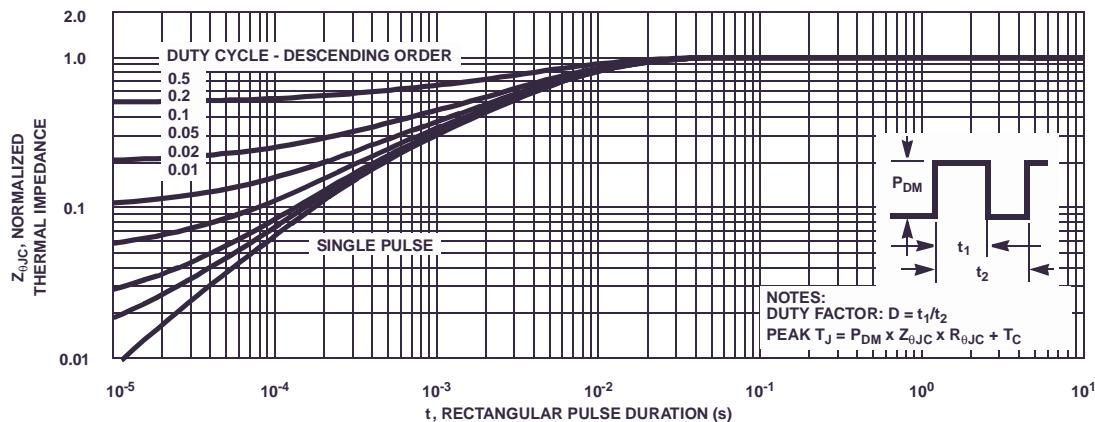


Figure 3. Normalized Maximum Transient Thermal Impedance

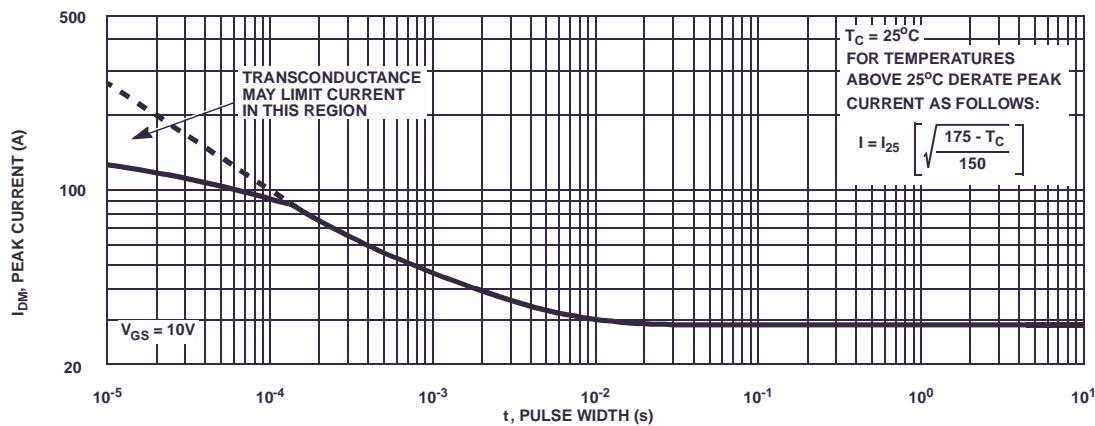


Figure 4. Peak Current Capability

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

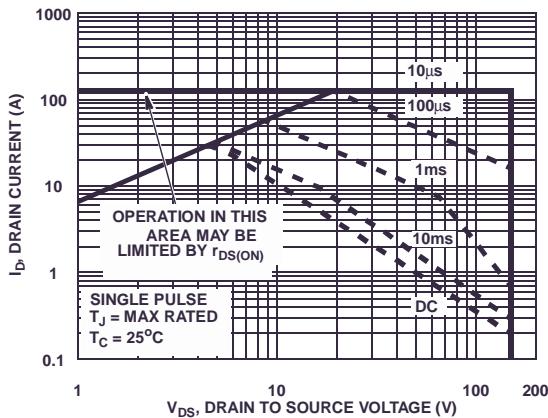
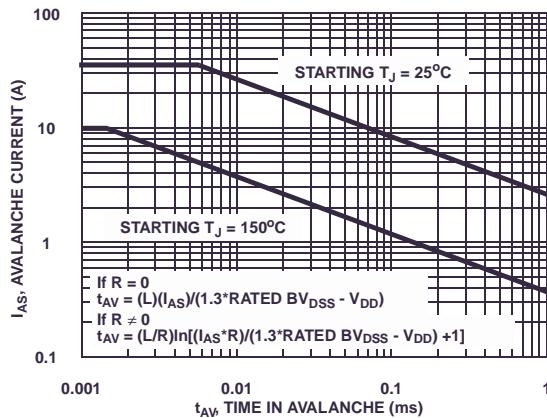


Figure 5. Forward Bias Safe Operating Area



NOTE: Refer to Fairchild Application Notes AN7514 and AN7515

Figure 6. Unclamped Inductive Switching Capability

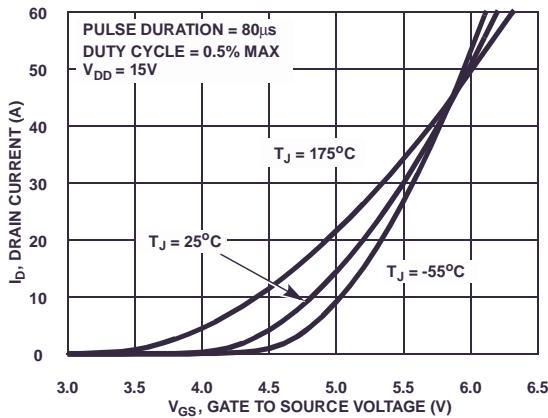


Figure 7. Transfer Characteristics

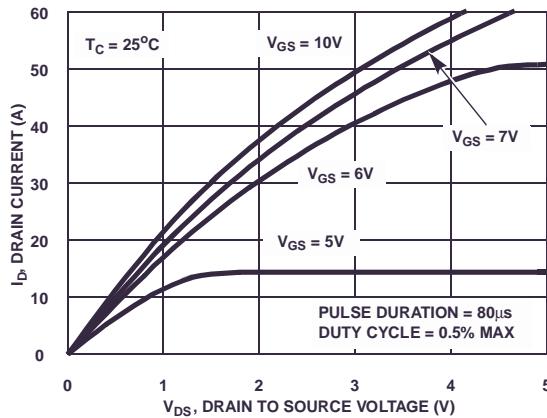


Figure 8. Saturation Characteristics

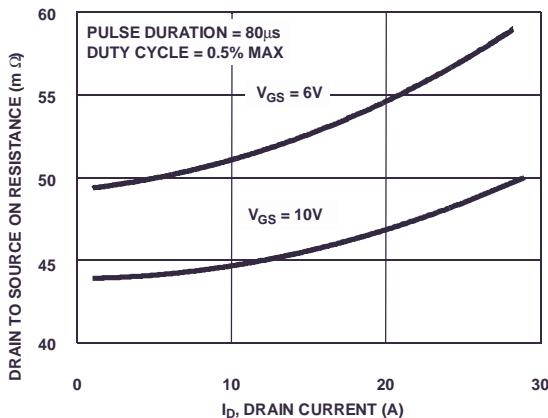


Figure 9. Drain to Source On Resistance vs Drain Current

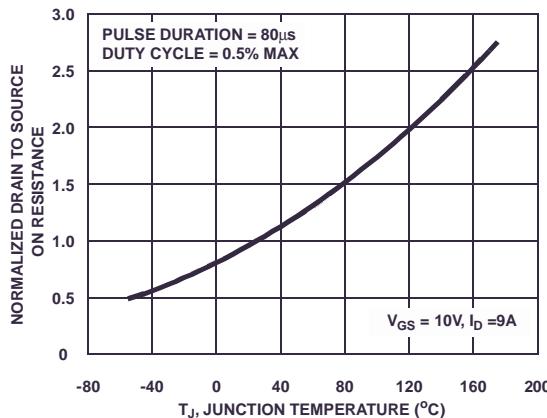


Figure 10. Normalized Drain to Source On Resistance vs Junction Temperature

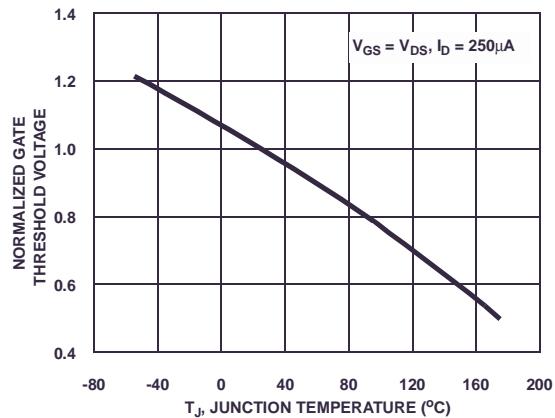
Typical Characteristics $T_C = 25^\circ\text{C}$ unless otherwise noted


Figure 11. Normalized Gate Threshold Voltage vs Junction Temperature

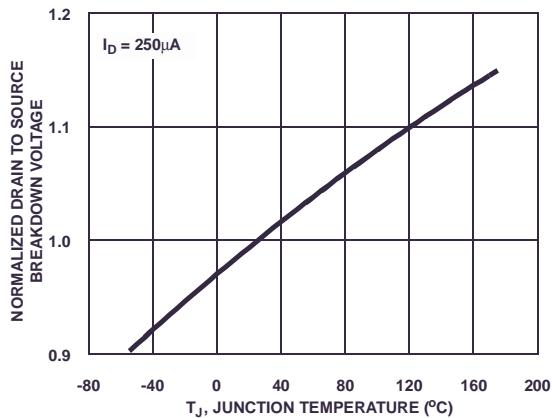


Figure 12. Normalized Drain to Source Breakdown Voltage vs Junction Temperature

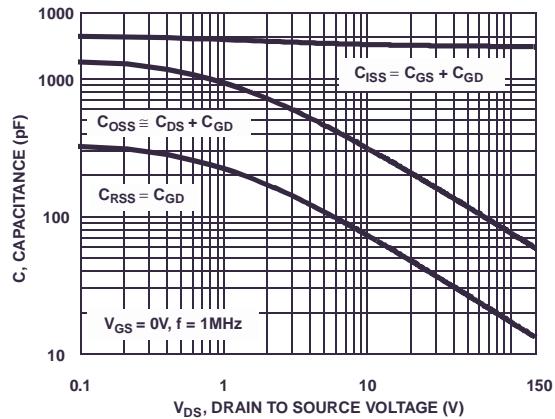


Figure 13. Capacitance vs Drain to Source Voltage

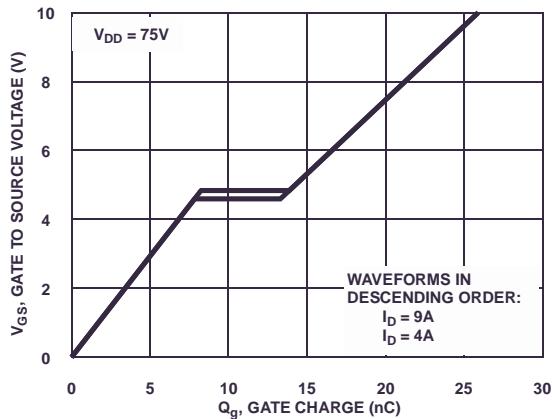


Figure 14. Gate Charge Waveforms for Constant Gate Currents

Test Circuits and Waveforms

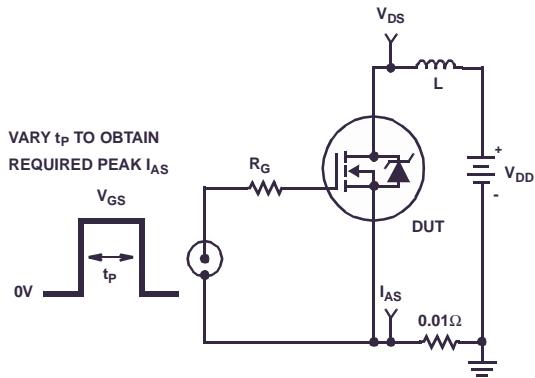


Figure 15. Unclamped Energy Test Circuit

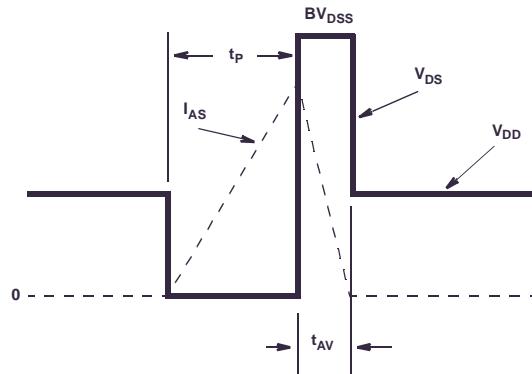


Figure 16. Unclamped Energy Waveforms

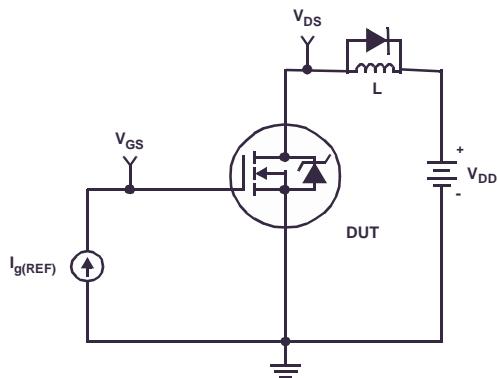


Figure 17. Gate Charge Test Circuit

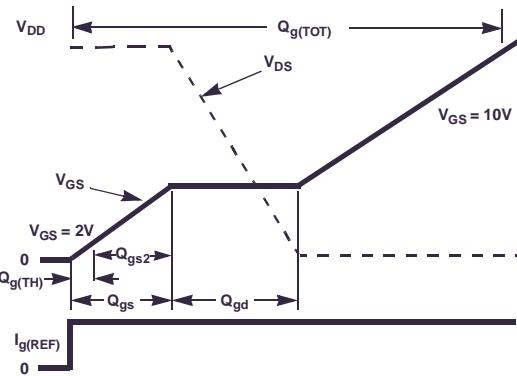


Figure 18. Gate Charge Waveforms

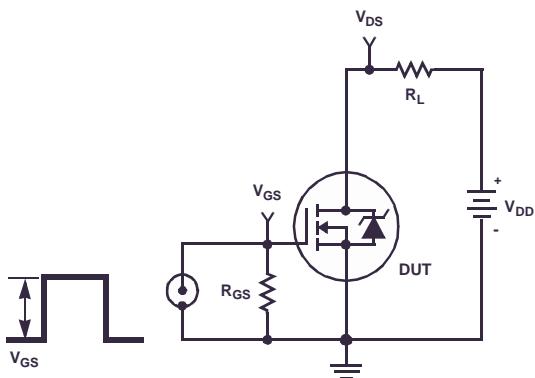


Figure 19. Switching Time Test Circuit

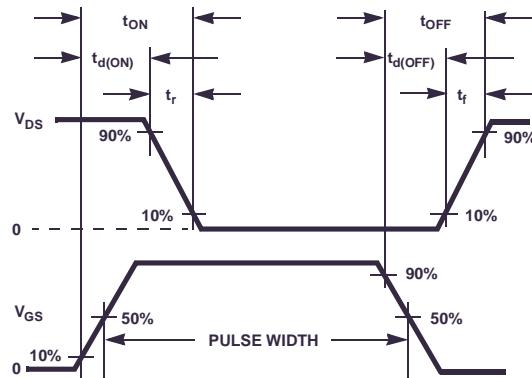


Figure 20. Switching Time Waveforms

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 ($^{\circ}$ C), and thermal resistance $R_{\theta JA}$ ($^{\circ}$ 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 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 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 Inches Squared

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

Area in Centimeters Squared

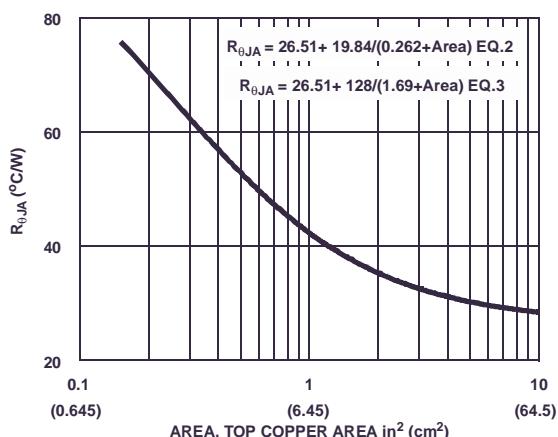


Figure 21. Thermal Resistance vs Mounting Pad Area

PSPICE Electrical Model

.SUBCKT FDB2572 2 1 3 ; rev April 2002

CA 12 8 5.5e-10

Cb 15 14 7.4e-10

Cin 6 8 1.7e-9

Dbody 7 5 DbodyMOD

Dbreak 5 11 DbreakMOD

Dplcap 10 5 DplcapMOD

Ebreak 11 7 17 18 160

Eds 14 8 5 8 1

Egs 13 8 6 8 1

Esg 6 10 6 8 1

Evhres 6 21 19 8 1

Evttemp 20 6 18 22 1

It 8 17 1

Lgate 1 9 9.56e-9

Ldrain 2 5 1.0e-9

Lsource 3 7 7.71e-9

RLgate 1 9 95.6

RLdrain 2 5 10

RLsource 3 7 77.1

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 35e-3

Rgate 9 20 1.6

RSLC1 5 51 RSLCMOD 1.0e-6

RSLC2 5 50 1.0e3

Rsource 8 7 RsourceMOD 3.0e-3

Rvthres 22 8 RvthresMOD 1

Rvttemp 18 19 RvttempMOD 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*52),3))}

.MODEL DbodyMOD D (IS=6.0E-11 N=1.14 RS=3.9e-3 TRS1=3.5e-3 TRS2=3.0e-6
+ CJO=1.1e-9 M=0.63 TT=6.2e-8 XTI=4.5)

.MODEL DbreakMOD D (RS=10 TRS1=5.0e-3 TRS2=-5.0e-6)

.MODEL DplcapMOD D (CJO=3.5e-10 IS=1.0e-30 N=10 M=0.65)

.MODEL MmedMOD NMOS (VTO=3.55 KP=3 IS=1e-40 N=10 TOX=1 L=1u W=1u RG=1.6)

.MODEL MstroMOD NMOS (VTO=4.0 KP=25 IS=1e-30 N=10 TOX=1 L=1u W=1u)

.MODEL MweakMOD NMOS (VTO=2.95 KP=0.05 IS=1e-30 N=10 TOX=1 L=1u W=1u RG=16 RS=0.1)

.MODEL RbreakMOD RES (TC1=1.15e-3 TC2=-9.5e-7)

.MODEL RdrainMOD RES (TC1=9.0e-3 TC2=2.5e-5)

.MODEL RSLCMOD RES (TC1=3.0e-3 TC2=2.5e-6)

.MODEL RsourceMOD RES (TC1=4.0e-3 TC2=1.0e-6)

.MODEL RvthresMOD RES (TC1=-4.1e-3 TC2=-1.0e-5)

.MODEL RvttempMOD RES (TC1=-4.0e-3 TC2=1.0e-6)

.MODEL S1AMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-5.0 VOFF=-3.5)

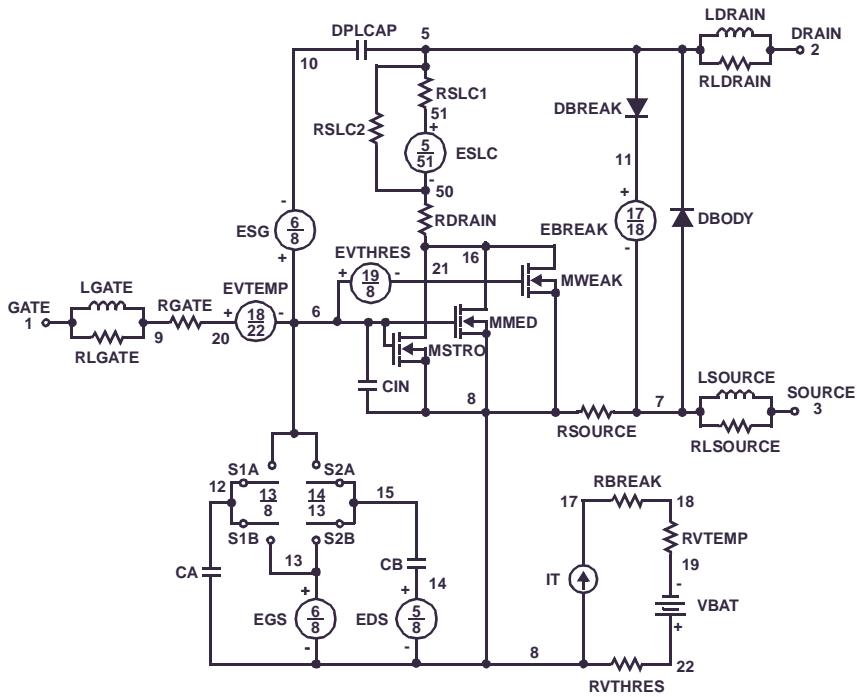
.MODEL S1BMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-3.5 VOFF=-5.0)

.MODEL S2AMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=-0.5 VOFF=0.3)

.MODEL S2BMOD VSWITCH (RON=1e-5 ROFF=0.1 VON=0.3 VOFF=-0.5)

.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 26 April 2002

FDB2572

```
CTHERM1 TH 6 3.8e-3
CTHERM2 6 5 4.0e-3
CTHERM3 5 4 4.2e-3
CTHERM4 4 3 4.3e-3
CTHERM5 3 2 8.5e-3
CTHERM6 2 TL 3.0e-2
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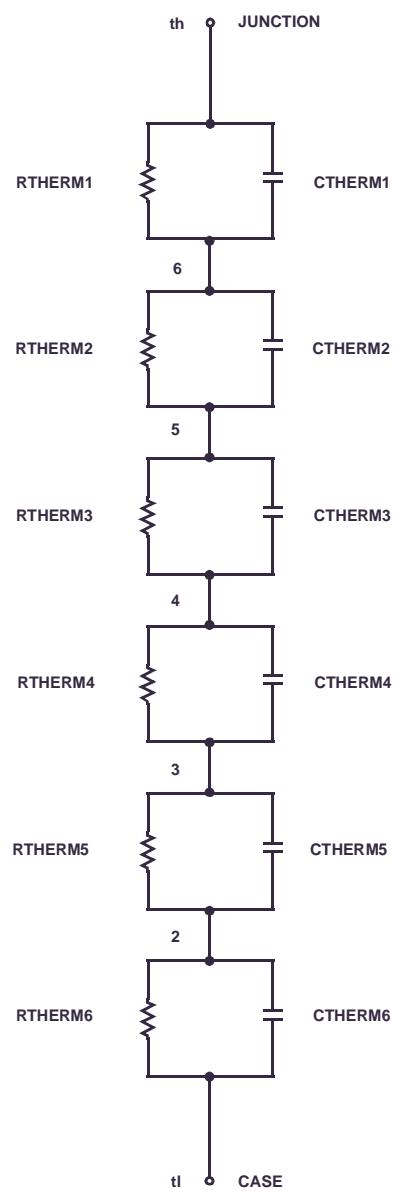
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RTERM1 TH 6 5.5e-4
RTERM2 6 5 5.0e-3
RTERM3 5 4 4.5e-2
RTERM4 4 3 10.5e-2
RTERM5 3 2 3.7e-1
RTERM6 2 TL 3.8e-1
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SABER Thermal Model

SABER thermal model FDB2572

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thermal_c th, tl
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  ctherm.therm1 th 6 =3.8e-3
  ctherm.therm2 6 5 =4.0e-3
  ctherm.therm3 5 4 =4.2e-3
  ctherm.therm4 4 3 =4.3e-3
  ctherm.therm5 3 2 =8.5e-3
  ctherm.therm6 2 tl =3.0e-2

  rtherm.rtherm1 th 6 =5.5e-4
  rtherm.rtherm2 6 5 =5.0e-3
  rtherm.rtherm3 5 4 =4.5e-2
  rtherm.rtherm4 4 3 =10.5e-2
  rtherm.rtherm5 3 2 =3.7e-1
  rtherm.rtherm6 2 tl =3.8e-1
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CROSSVOLT™	GTO™	 ™	TinyPower™
CTL™	IntelliMAX™	Saving our world, 1mW/W/kW at a time™	TinyPWM™
Current Transfer Logic™	ISOPLANAR™	SignalWise™	TinyWire™
DEUXPEED®	Marking Small Speakers Sound Louder and Better™	SmartMax™	TranSiC®
Dual Cool™	MegaBuck™	SMART START™	TriFault Detect™
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FPSTM			

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