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FDP2572

N-Channel PowerTrench® MOSFET

150 V, 29 A, 54 mΩ

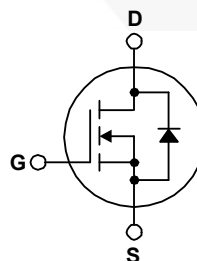
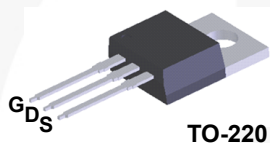
Features

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

Applications

- Consumer Appliances
- Synchronous Rectification
- Battery Protection Circuit
- Motor drives and Uninterruptible Power Supplies
- Micro Solar Inverter

Formerly developmental type 82860



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

Symbol	Parameter	FDP2572	Unit
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, Max.	1.11	$^\circ\text{C/W}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, Max. (Note 2)	62.5	$^\circ\text{C/W}$

Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
FDP2572	FDP2572	TO-220	Tube	N/A	50 units

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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
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Off Characteristics

B_{VDSS}	Drain to Source Breakdown Voltage	$I_D = 250\mu\text{A}$, $V_{GS} = 0\text{V}$	150	-	-	V
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS} = 120\text{V}$ $V_{GS} = 0\text{V}$ $T_C = 150^\circ$	-	-	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	$I_D = 9\text{A}$, $V_{GS} = 10\text{V}$	-	0.045	0.054	Ω
		$I_D = 4\text{A}$, $V_{GS} = 6\text{V}$,	-	0.050	0.075	
		$I_D = 9\text{A}$, $V_{GS} = 10\text{V}$, $T_C = 175^\circ\text{C}$	-	0.126	0.146	

Dynamic Characteristics

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

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

t_{ON}	Turn-On Time	$V_{DD} = 75\text{V}$, $I_D = 9\text{A}$ $V_{GS} = 10\text{V}$, $R_{GS} = 11.0\Omega$	-	-	36	ns
$t_{d(ON)}$	Turn-On Delay Time		-	11	-	ns
t_r	Rise Time		-	14	-	ns
$t_{d(OFF)}$	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	$I_{SD} = 9\text{A}$	-	-	1.25	V
		$I_{SD} = 4\text{A}$	-	-	1.0	V
t_{rr}	Reverse Recovery Time	$I_{SD} = 9\text{A}$, $dI_{SD}/dt = 100\text{A}/\mu\text{s}$	-	-	74	ns
Q_{RR}	Reverse Recovered Charge	$I_{SD} = 9\text{A}$, $dI_{SD}/dt = 100\text{A}/\mu\text{s}$	-	-	169	nC

Notes:

- Starting $T_J = 25^\circ\text{C}$, $L = 0.2\text{mH}$, $I_{AS} = 19\text{A}$.
- Pulse Width = 100s

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

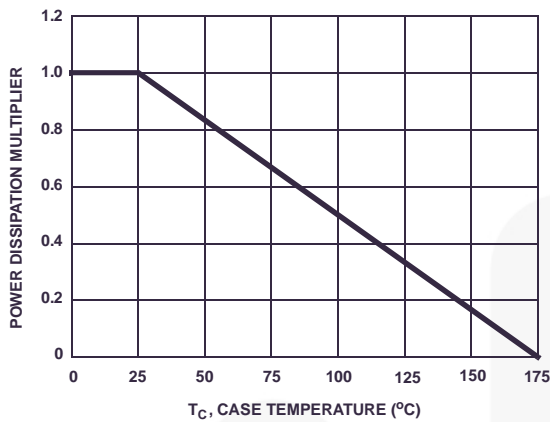


Figure 1. Normalized Power Dissipation vs Ambient Temperature

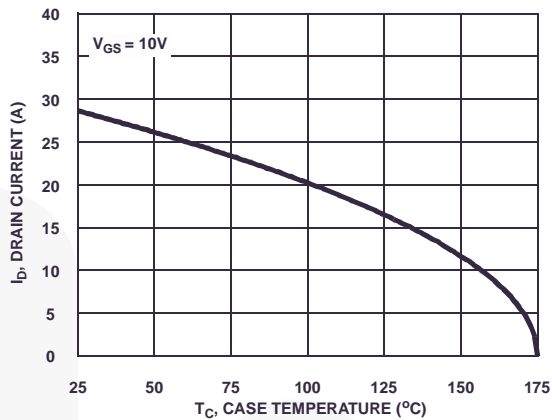


Figure 2. Maximum Continuous Drain Current vs Case Temperature

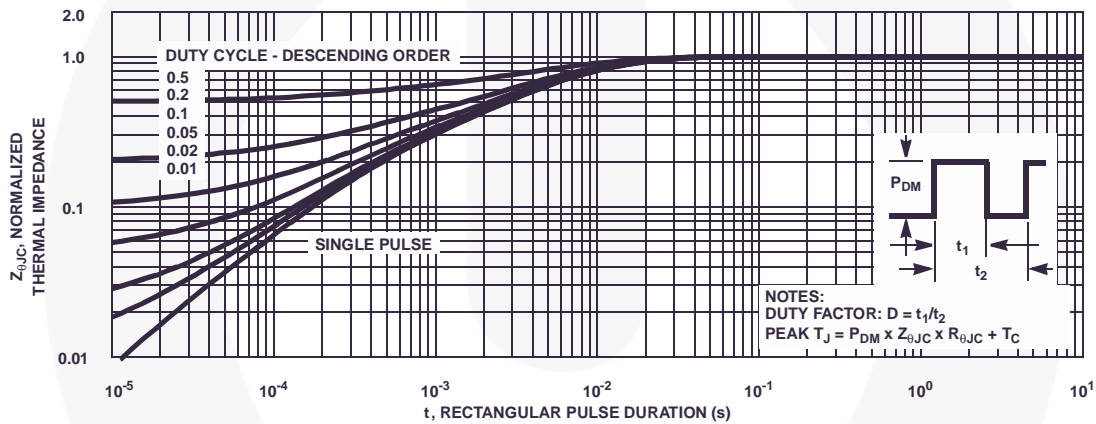


Figure 3. Normalized Maximum Transient Thermal Impedance

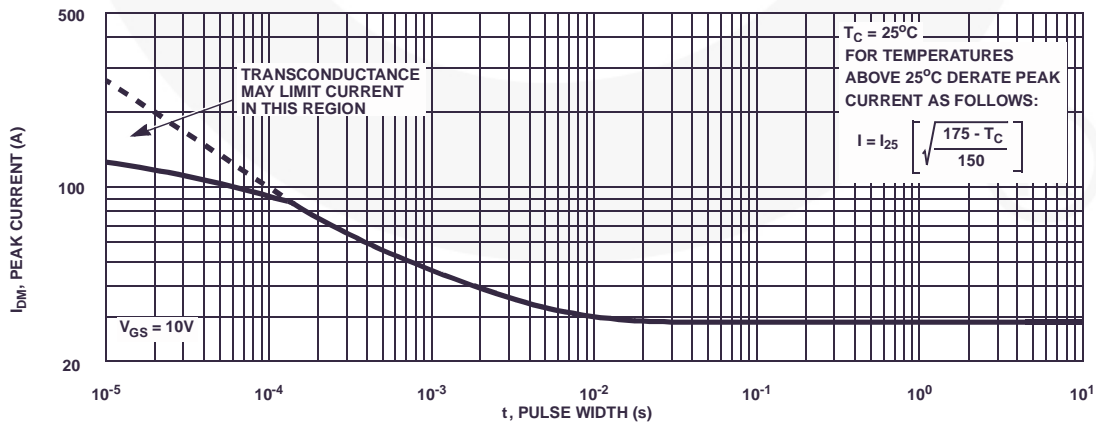


Figure 4. Peak Current Capability

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

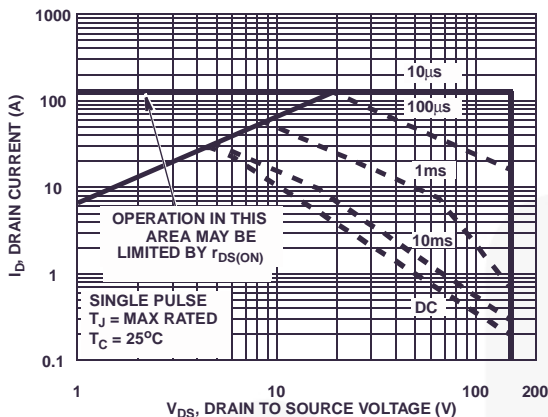


Figure 5. Forward Bias Safe Operating Area

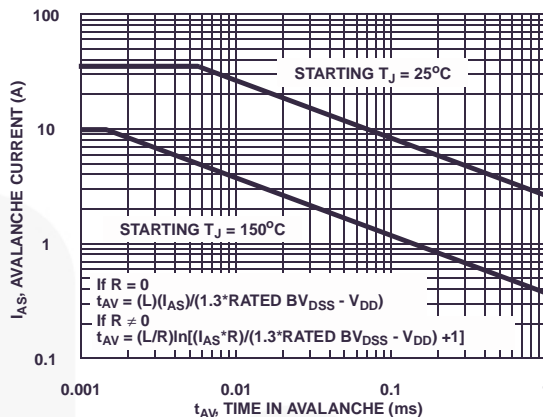


Figure 6. Unclamped Inductive Switching Capability

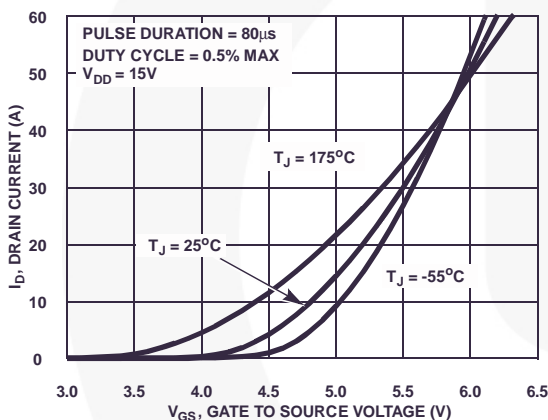


Figure 7. Transfer Characteristics

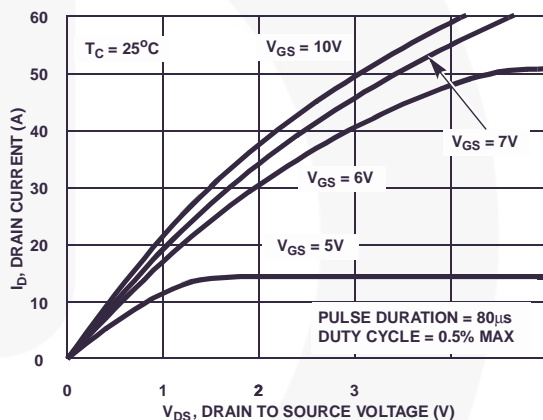


Figure 8. Saturation Characteristics

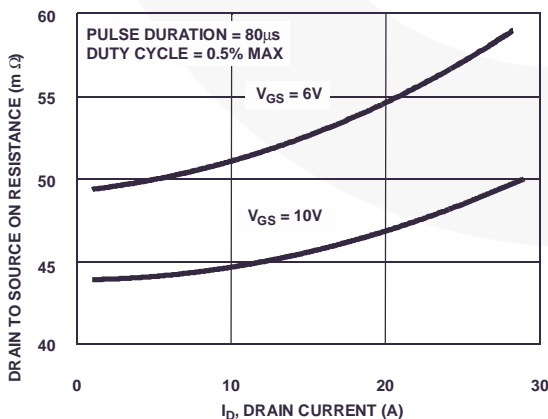


Figure 9. Drain to Source On Resistance vs Drain Current

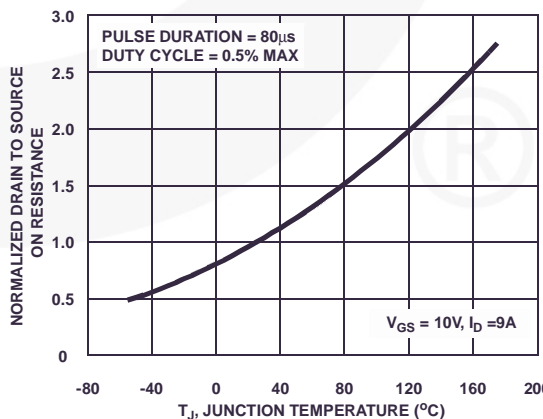


Figure 10. Normalized Drain to Source On Resistance vs Junction Temperature

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

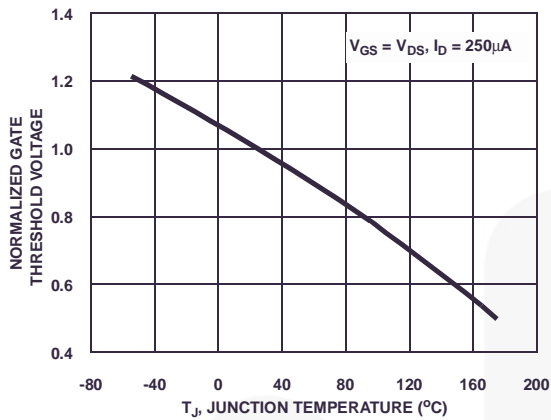


Figure 11. Normalized Gate Threshold Voltage vs Junction Temperature

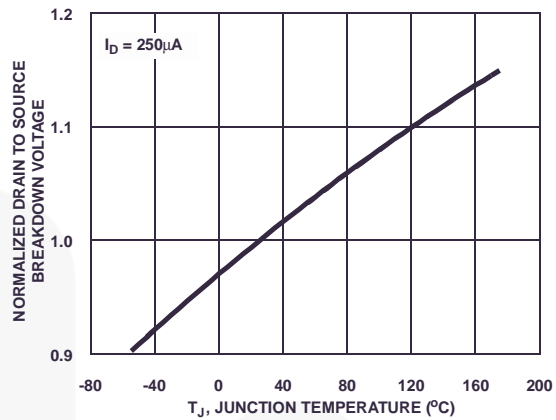


Figure 12. Normalized Drain to Source Breakdown Voltage vs Junction Temperature

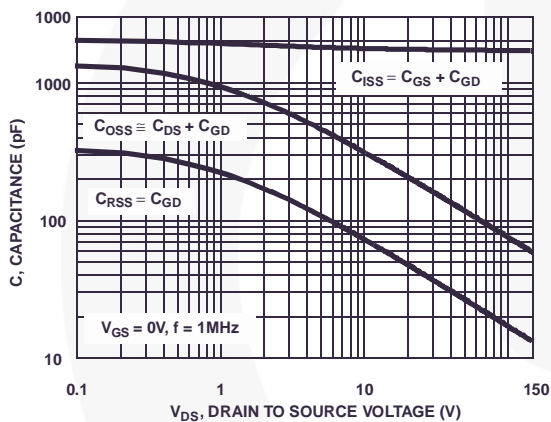


Figure 13. Capacitance vs Drain to Source Voltage

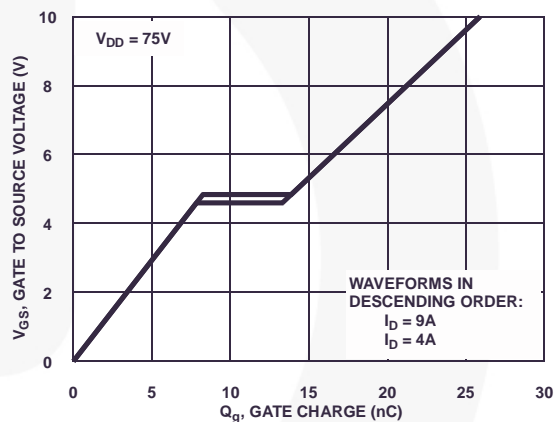


Figure 14. Gate Charge Waveforms for Constant Gate Currents

Test Circuits and Waveforms

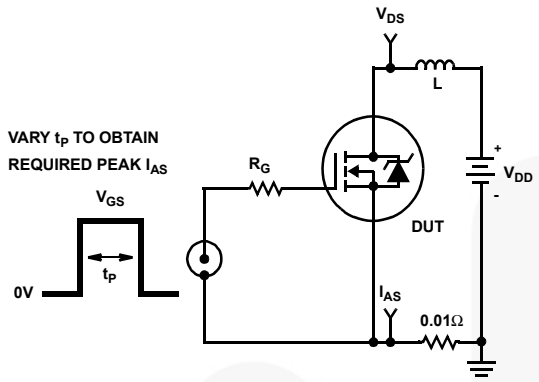


Figure 15. Unclamped Energy Test Circuit

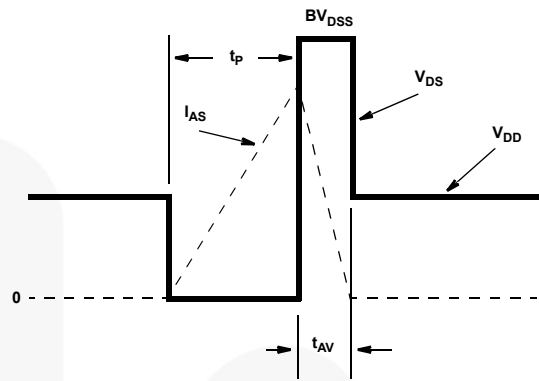


Figure 16. Unclamped Energy Waveforms

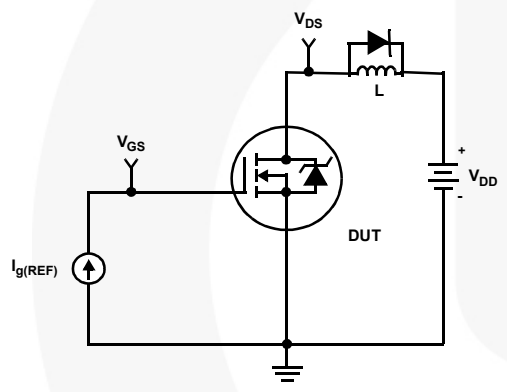


Figure 17. Gate Charge Test Circuit

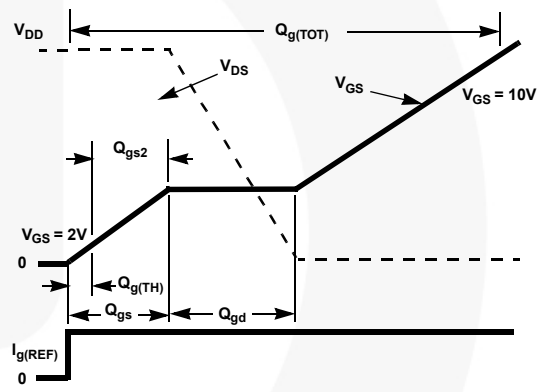


Figure 18. Gate Charge Waveforms

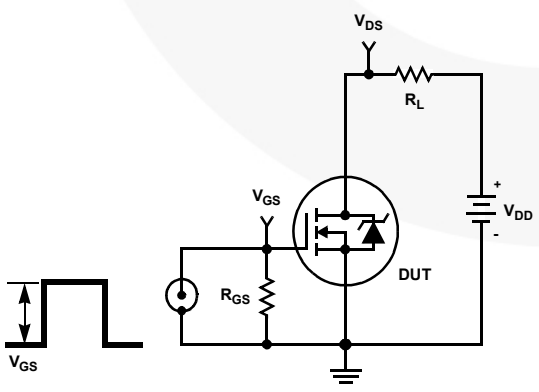


Figure 19. Switching Time Test Circuit

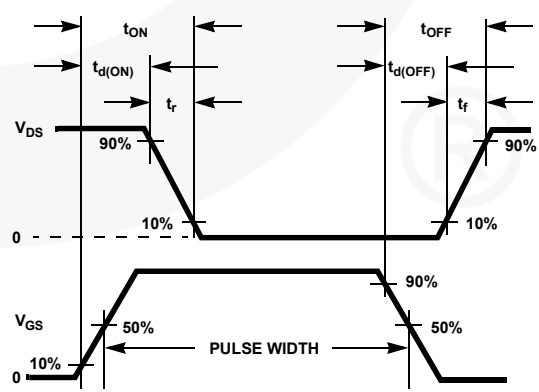


Figure 20. Switching Time Waveforms

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

Ebbreak 11 7 17 18 160
 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 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
 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

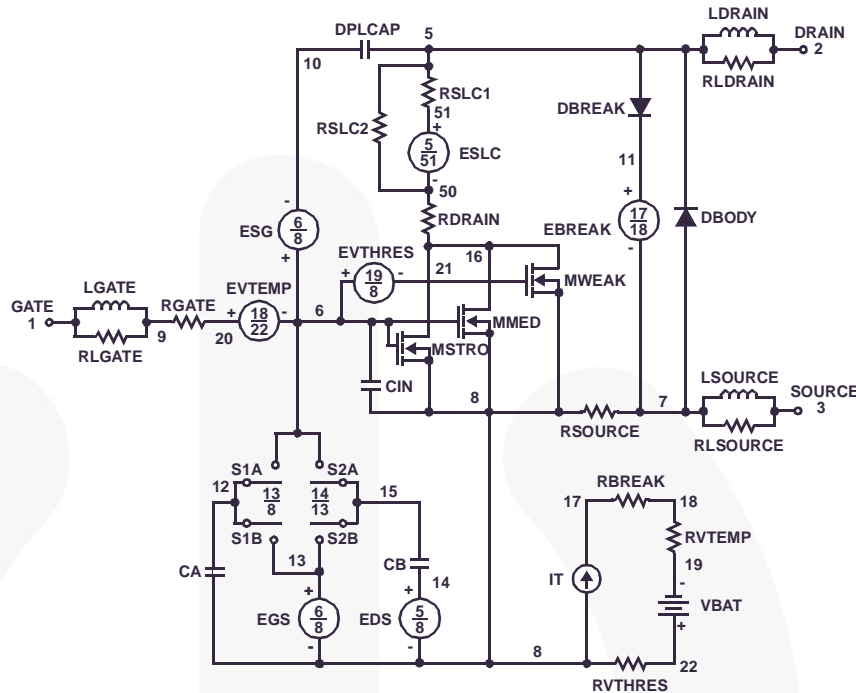
ESLC 51 50 VALUE={ (V(5,51)/ABS(V(5,51))) * (PWR(V(5,51)/(1e-6*52),3)) }

.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 RvtempMOD 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
    
```

```

R THERM1 TH 6 5.5e-4
R THERM2 6 5 5.0e-3
R THERM3 5 4 4.5e-2
R THERM4 4 3 10.5e-2
R THERM5 3 2 3.7e-1
R THERM6 2 TL 3.8e-1
    
```

SABER Thermal Model

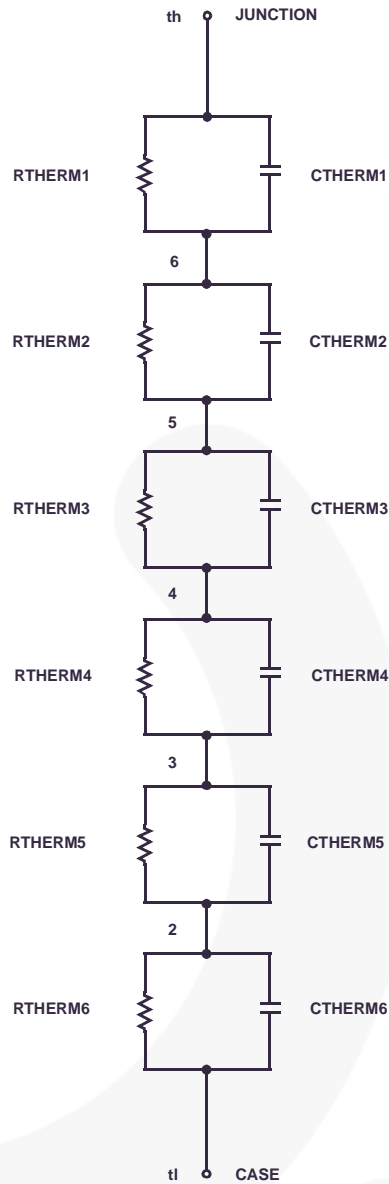
SABER thermal model FDB2572
 template thermal_model th tl
 thermal_c th, tl

```

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  ctherm.ctherm1 th 6 =3.8e-3
  ctherm.ctherm2 6 5 =4.0e-3
  ctherm.ctherm3 5 4 =4.2e-3
  ctherm.ctherm4 4 3 =4.3e-3
  ctherm.ctherm5 3 2 =8.5e-3
  ctherm.ctherm6 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
}
    
```



Mechanical Dimensions

TO-220 3L

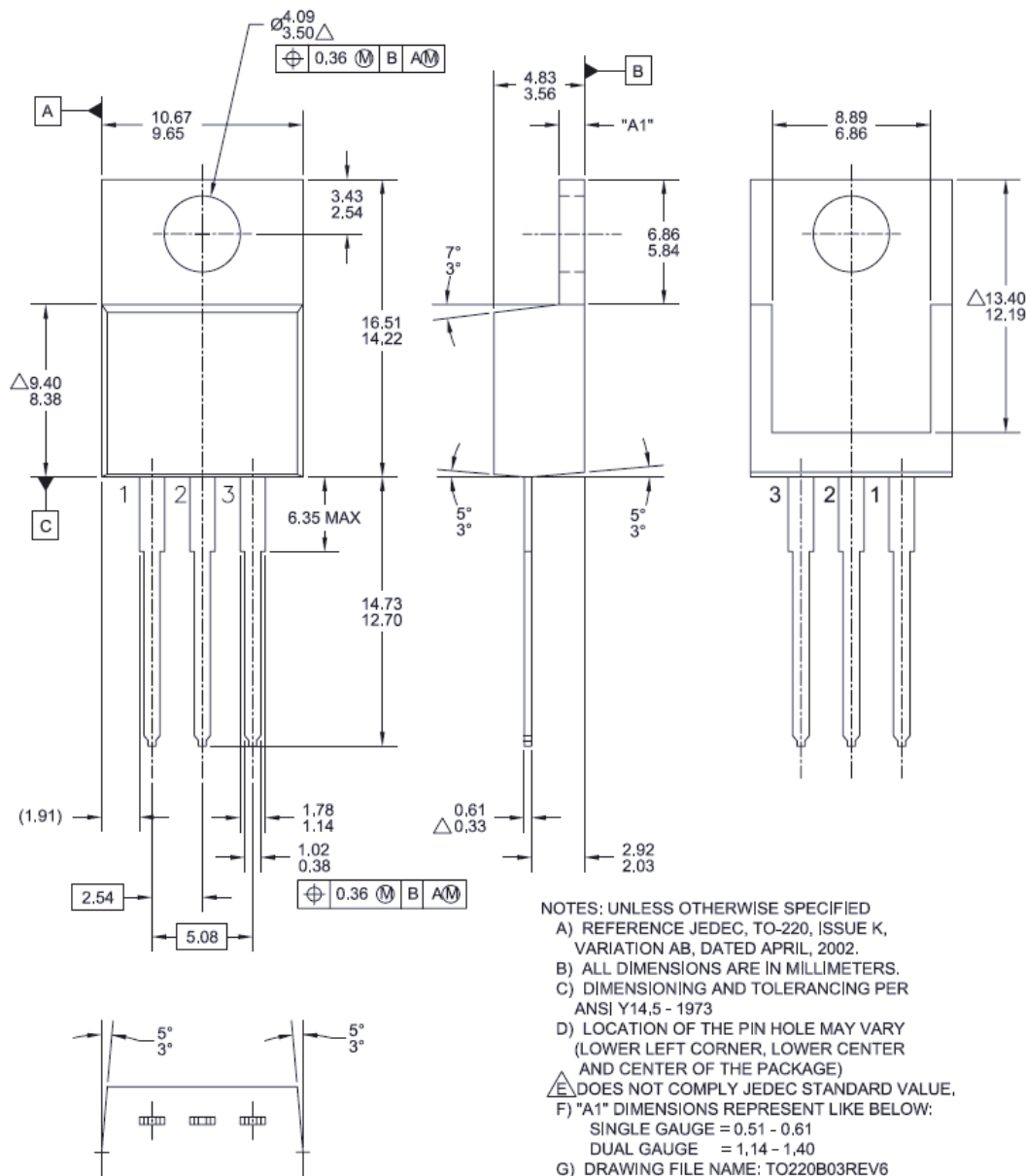


Figure 21. TO-220, Molded, 3Lead, Jedec Variation AB

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http://www.fairchildsemi.com/package/packageDetails.html?id=PN_TT220-003

Dimension in Millimeters



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| CorePLUS™ | Green FPS™ | QS™ | TinyCalc™ |
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| EfficientMax™ | MicroPak2™ | MotionMax™ | TRUECURRENT®* |
| ESBC™ | mWSaver® | OPTOLOGIC® | µSerDes™ |
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| Fairchild Semiconductor® | SPM® | SupersOT™-3 | UniFET™ |
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| FACT® | SuperFET® | SupersOT™-8 | VisualMax™ |
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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
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