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Data Sheet **October 2013**

N-Channel UltraFET Power MOSFET 55 V, 75 A, 7 mΩ

These N-Channel power MOSFETs are manufactured using the innovative UltraFET process. This advanced process technology achieves the lowest possible on-resistance per silicon area, resulting in outstanding performance. This device is capable of withstanding high energy in the avalanche mode and the diode exhibits very low reverse recovery time and stored charge. It was designed for use in applications where power efficiency is important, such as switching regulators, switching converters, motor drivers, relay drivers, low-voltage bus switches, and power management in portable and battery-operated products.

Formerly developmental type TA75345.

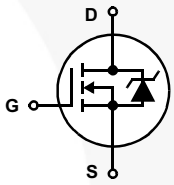
Features

- 75A, 55V
- Simulation Models
  - Temperature Compensated PSPICE® and SABER™ Models
  - Thermal Impedance SPICE and SABER Models Available on the WEB at: www.fairchildsemi.com
- Peak Current vs Pulse Width Curve
- UIS Rating Curve
- Related Literature
  - TB334, “Guidelines for Soldering Surface Mount Components to PC Boards”

Ordering Information

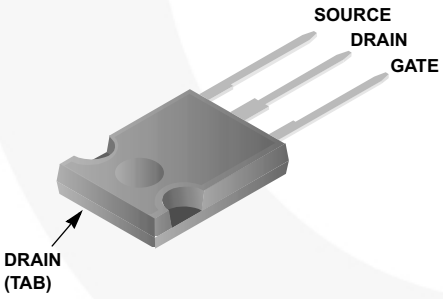
PART NUMBER	PACKAGE	BRAND
HUF75345G3	TO-247	75345G
HUF75345P3	TO-220AB	75345P
HUF75345S3ST	TO-263AB	75345S

Symbol

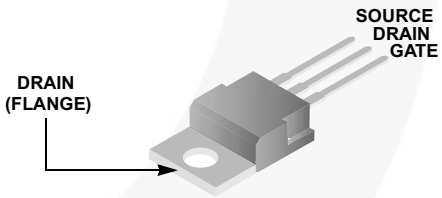


Packaging

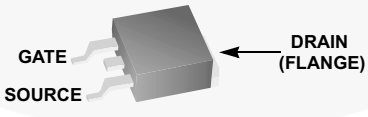
JEDEC STYLE TO-247



JEDEC TO-220AB



JEDEC TO-263AB



Product reliability information can be found at http://www.fairchildsemi.com/products/discrete/reliability/index.html
For severe environments, see our Automotive HUFA series.
All Fairchild semiconductor products are manufactured, assembled and tested under ISO9000 and QS9000 quality systems certification.

Absolute Maximum Ratings $T_C = 25^oC$, Unless Otherwise Specified

			UNITS
Drain to Source Voltage (Note 1)	V_{DSS}	55	V
Drain to Gate Voltage (R_{GS} = 20kΩ) (Note 1)	V_{DGR}	55	V
Gate to Source Voltage	V_{GS}	±20	V
Drain Current			
Continuous (Figure 2)	I_D	75	A
Pulsed Drain Current	I_{DM}	Figure 4	
Pulsed Avalanche Rating	E_{AS}	Figure 6	
Power Dissipation	P_D	325	W
Derate Above 25^oC		2.17	$W/^oC$
Operating and Storage Temperature	T_J, T_{STG}	-55 to 175	^oC
Maximum Temperature for Soldering			
Leads at 0.063in (1.6mm) from Case for 10s	T_L	300	^oC
Package Body for 10s, See Techbrief 334	T_{pkg}	260	^oC

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

NOTE:

1. $T_J = 25^oC$ to 150^oC.

Electrical Specifications $T_C = 25^oC$, Unless Otherwise Specified

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNITS
OFF STATE SPECIFICATIONS							
Drain to Source Breakdown Voltage	BV_{DSS}	I_D = 250μA, V_{GS} = 0V (Figure 11)		55	-	-	V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS} = 50V, V_{GS} = 0V		-	-	1	μA
		V_{DS} = 45V, V_{GS} = 0V, $T_C = 150^oC$		-	-	250	μA
Gate to Source Leakage Current	I_{GSS}	V_{GS} = ±20V		-	-	±100	nA
ON STATE SPECIFICATIONS							
Gate to Source Threshold Voltage	$V_{GS(TH)}$	V_{GS} = V_{DS}, I_D = 250μA (Figure 10)		2	-	4	V
Drain to Source On Resistance	$r_{DS(ON)}$	I_D = 75A, V_{GS} = 10V (Figure 9)		-	0.006	0.007	Ω
THERMAL SPECIFICATIONS							
Thermal Resistance Junction to Case	$R_{\theta JC}$	(Figure 3)		-	-	0.46	$^oC/W$
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	TO-247		-	-	30	$^oC/W$
		TO-220, TO-263		-	-	62	$^oC/W$
SWITCHING SPECIFICATIONS (V_{GS} = 10V)							
Turn-On Time	t_{ON}	V_{DD} = 30V, $I_D \cong$ 75A, R_L = 0.4Ω, V_{GS} = 10V, R_{GS} = 2.5Ω		-	-	195	ns
Turn-On Delay Time	$t_{d(ON)}$			-	14	-	ns
Rise Time	t_r			-	118	-	ns
Turn-Off Delay Time	$t_{d(OFF)}$			-	42	-	ns
Fall Time	t_f			-	26	-	ns
Turn-Off Time	t_{OFF}			-	-	98	ns
GATE CHARGE SPECIFICATIONS							
Total Gate Charge	$Q_{g(TOT)}$	V_{GS} = 0V to 20V	V_{DD} = 30V, $I_D \cong$ 75A, R_L = 0.4Ω $I_{g(REF)}$ = 1.0mA (Figure 13)	-	220	275	nC
Gate Charge at 10V	$Q_{g(10)}$	V_{GS} = 0V to 10V		-	125	165	nC
Threshold Gate Charge	$Q_{g(TH)}$	V_{GS} = 0V to 2V		-	6.8	10	nC
Gate to Source Gate Charge	Q_{gs}			-	14	-	nC
Gate to Drain "Miller" Charge	Q_{gd}			-	58	-	nC

Electrical Specifications $T_C = 25^oC$, Unless Otherwise Specified **(Continued)**

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
CAPACITANCE SPECIFICATIONS						
Input Capacitance	C_{ISS}	V_{DS} = 25V, V_{GS} = 0V, f = 1MHz (Figure 12)	-	4000	-	pF
Output Capacitance	C_{OSS}		-	1450	-	pF
Reverse Transfer Capacitance	C_{RSS}		-	450	-	pF

Source to Drain Diode Specifications

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Source to Drain Diode Voltage	V_{SD}	I_{SD} = 75A	-	-	1.25	V
Reverse Recovery Time	t_{rr}	I_{SD} = 75A, dI_{SD}/dt = 100A/µs	-	-	55	ns
Reverse Recovered Charge	Q_{RR}	I_{SD} = 75A, dI_{SD}/dt = 100A/µs	-	-	80	nC

Typical Performance Curves

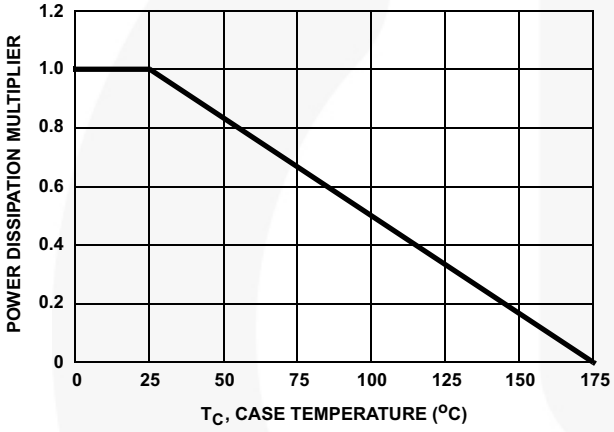


FIGURE 1. NORMALIZED POWER DISSIPATION vs CASE TEMPERATURE

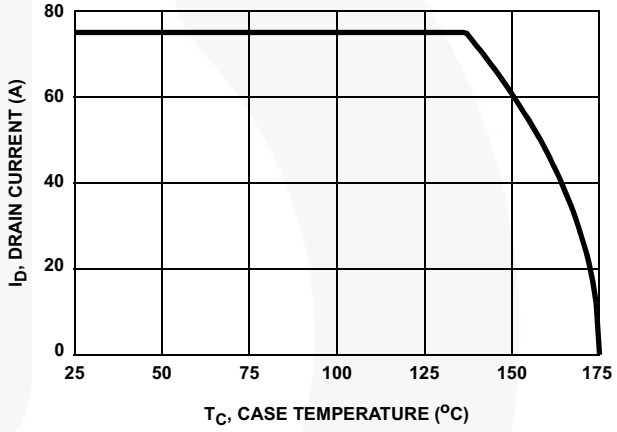


FIGURE 2. MAXIMUM CONTINUOUS DRAIN CURRENT vs CASE TEMPERATURE

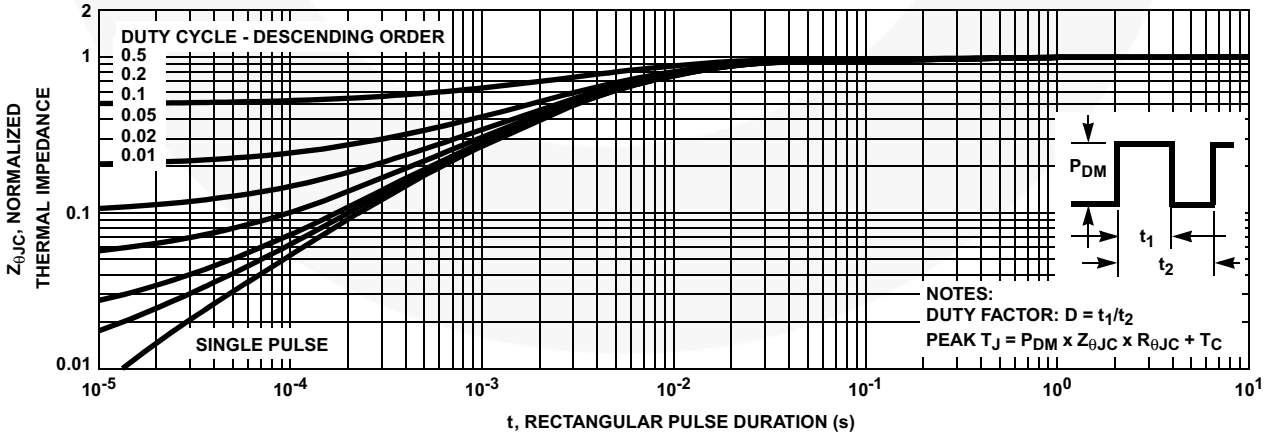


FIGURE 3. NORMALIZED MAXIMUM TRANSIENT THERMAL IMPEDANCE

Typical Performance Curves (Continued)

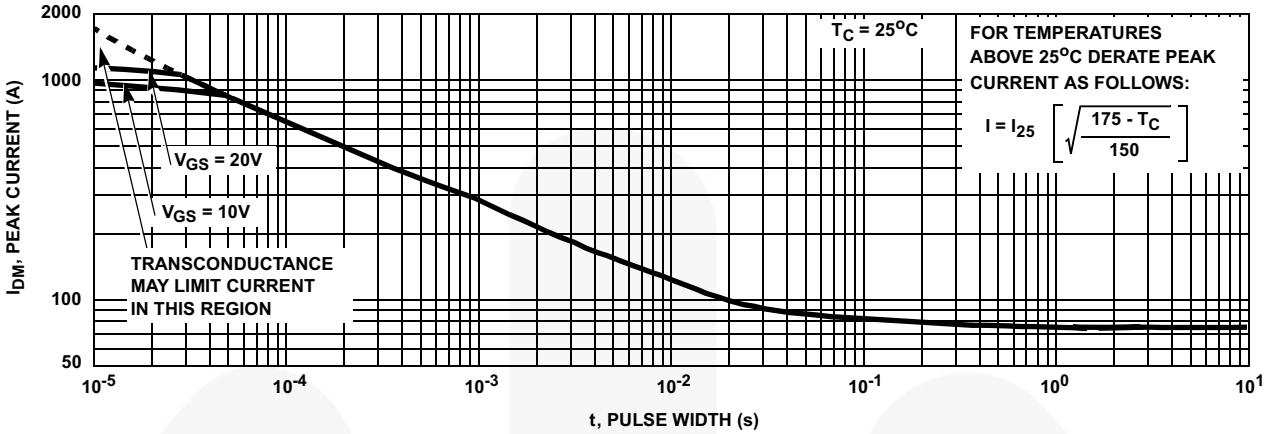


FIGURE 4. PEAK CURRENT CAPABILITY

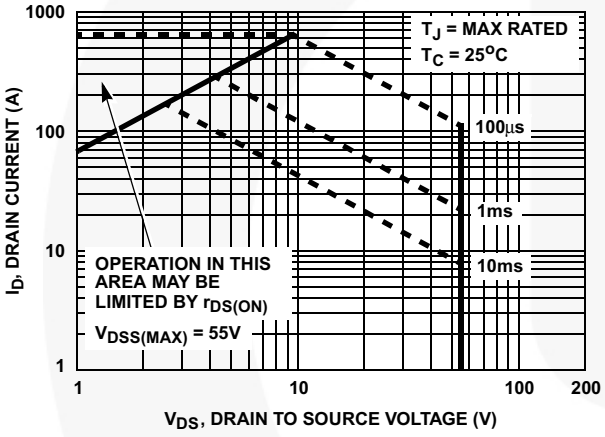
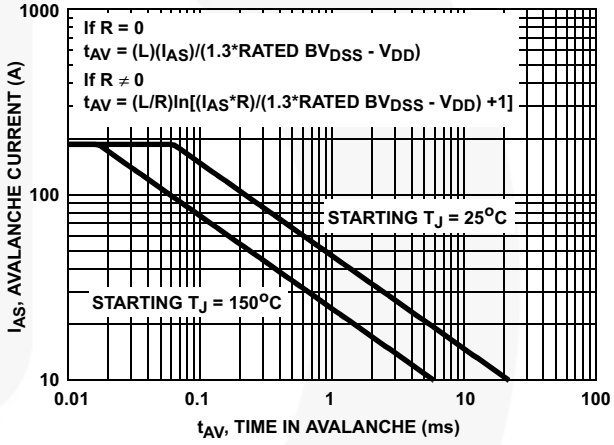


FIGURE 5. FORWARD BIAS SAFE OPERATING AREA



NOTE: Refer to Fairchild Application Notes AN9321 and AN9322.

FIGURE 6. UNCLAMPED INDUCTIVE SWITCHING CAPABILITY

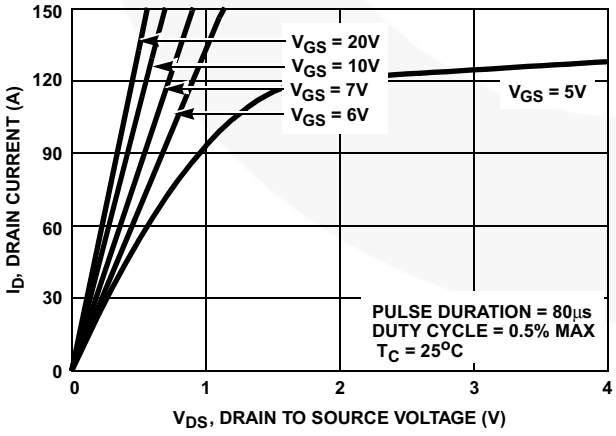


FIGURE 7. SATURATION CHARACTERISTICS

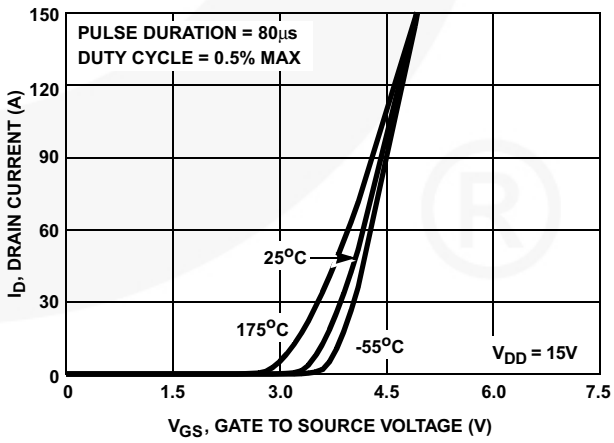


FIGURE 8. TRANSFER CHARACTERISTICS

Typical Performance Curves (Continued)

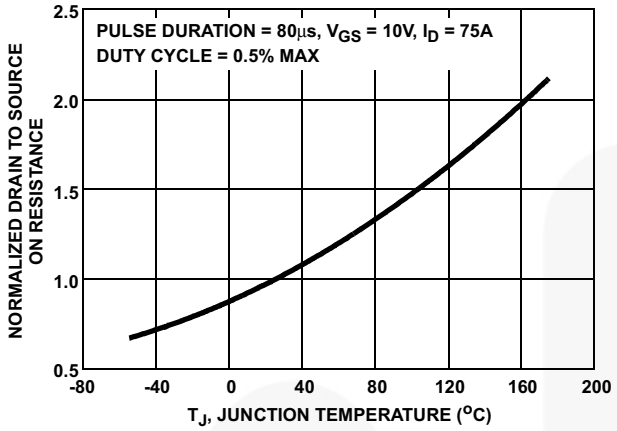


FIGURE 9. NORMALIZED DRAIN TO SOURCE ON RESISTANCE vs JUNCTION TEMPERATURE

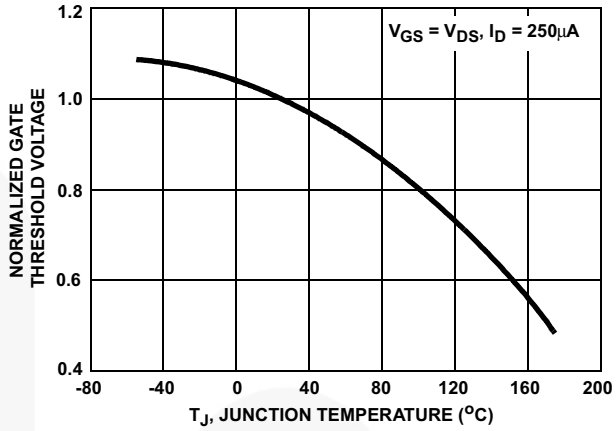


FIGURE 10. NORMALIZED GATE THRESHOLD VOLTAGE vs JUNCTION TEMPERATURE

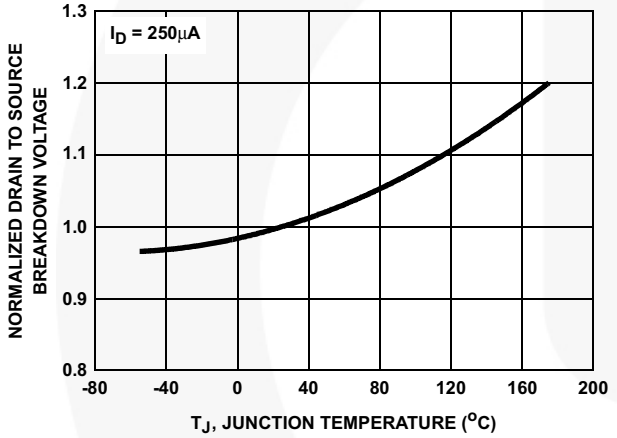


FIGURE 11. NORMALIZED DRAIN TO SOURCE BREAKDOWN VOLTAGE vs JUNCTION TEMPERATURE

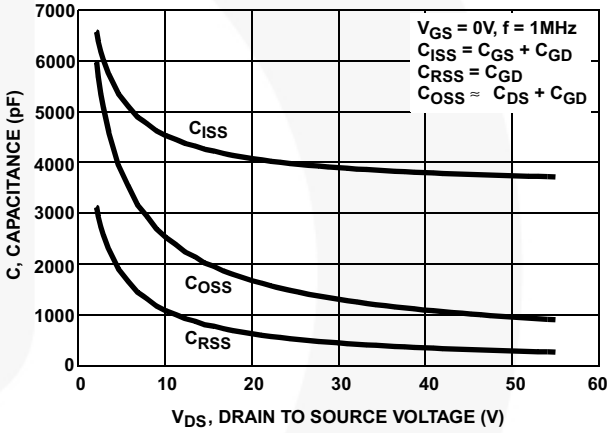
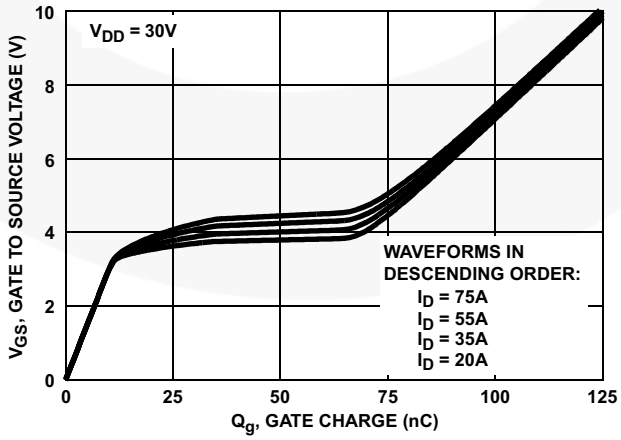


FIGURE 12. CAPACITANCE vs DRAIN TO SOURCE VOLTAGE



NOTE: Refer to Fairchild Application Notes AN7254 and AN7260.

FIGURE 13. GATE CHARGE WAVEFORMS FOR CONSTANT GATE CURRENT

Test Circuits and Waveforms

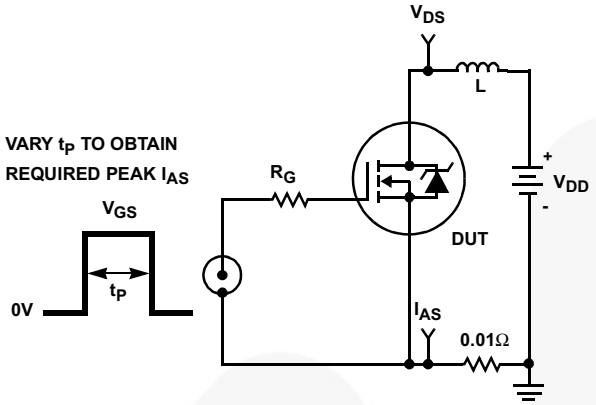


FIGURE 14. UNCLAMPED ENERGY TEST CIRCUIT

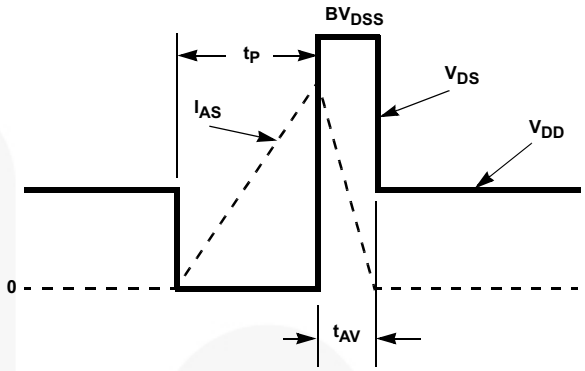


FIGURE 15. UNCLAMPED ENERGY WAVEFORMS

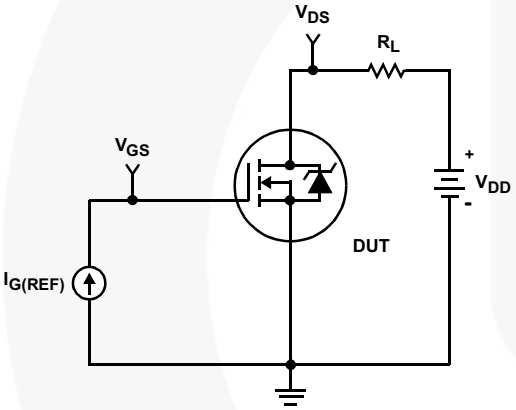


FIGURE 16. GATE CHARGE TEST CIRCUIT

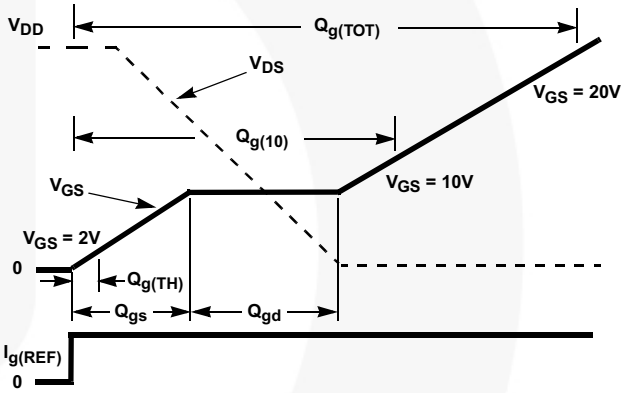


FIGURE 17. GATE CHARGE WAVEFORM

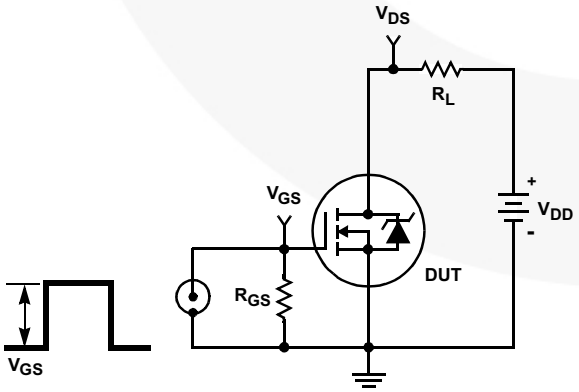


FIGURE 18. SWITCHING TIME TEST CIRCUIT

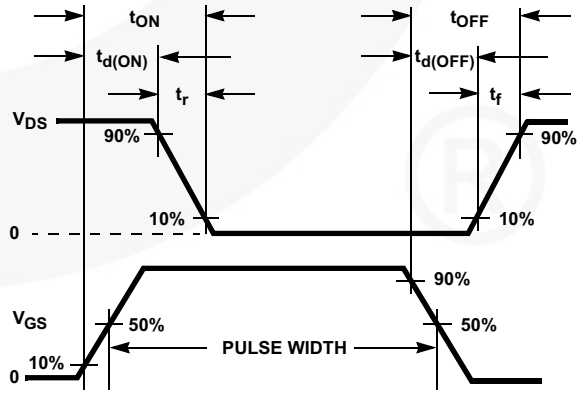


FIGURE 19. RESISTIVE SWITCHING WAVEFORMS

PSPICE Electrical Model

.SUBCKT HUF75345 2 1 3 ; rev 3 Feb 99

CA 12 8 5.55e-9
CB 15 14 5.55e-9
CIN 6 8 3.45e-9

DBODY 7 5 DBODYMOD
DBREAK 5 11 DBREAKMOD
DPLCAP 10 5 DPLCAPMOD

EBREAK 11 7 17 18 56.7
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

LDRAIN 2 5 1e-9
LGATE 1 9 2.6e-9
LSOURCE 3 7 1.1e-9
KGATE LSOURCE LGATE 0.0085

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 1e-4
RGATE 9 20 0.36
RLDRAIN 2 5 10
RLGATE 1 9 26
RLSOURCE 3 7 11
RSLC1 5 51 RSLCMOD 1e-6
RSLC2 5 50 1e3
RSOURCE 8 7 RSOURCEMOD 3.15e-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*500),3.5))}

.MODEL DBODYMOD D (IS = 6e-12 RS = 1.4e-3 IKF = 20 XTI = 5 TRS1 = 2.75e-3 TRS2 = 5.0e-6 CJO = 5.5e-9 TT = 5.9e-8 M = 0.5 VJ = 0.75)
.MODEL DBREAKMOD D (RS = 2.8e-2 IKF = 30 TRS1 = -4.0e-3 TRS2 = 1.0e-6)
.MODEL DPLCAPMOD D (CJO = 6.75e-9 IS = 1e-30 M = 0.88 VJ = 1.45 FC = 0.5)
.MODEL MMEDMOD NMOS (VTO = 2.93 KP = 13.75 IS = 1e-30 N = 10 TOX = 1 L = 1u W = 1u RG = 0.36)
.MODEL MSTROMOD NMOS (VTO = 3.23 KP = 96 IS = 1e-30 N = 10 TOX = 1 L = 1u W = 1u Lambda = 0.06)
.MODEL MWEAKMOD NMOS (VTO = 2.35 KP =0.02 IS = 1e-30 N = 10 TOX = 1 L = 1u W = 1u RG = 3.6)
.MODEL RBREAKMOD RES (TC1 = 8.0e-4 TC2 = 4.0e-6)
.MODEL RDRAINMOD RES (TC1 = 1.5e-1 TC2 = 6.5e-4)
.MODEL RSLCMOD RES (TC1 = 1.0e-4 TC2 = 1.05e-6)
.MODEL RSOURCEMOD RES (TC1 = 1.0e-3 TC2 = 0)
.MODEL RVTHRESMOD RES (TC1 = -1.5e-3 TC2 = -2.6e-5)
.MODEL RVTEMPMOD RES (TC1 = -2.75e-3 TC2 = 1.45e-6)

.MODEL S1AMOD VSWITCH (RON = 1e-5 ROFF = 0.1 VON = -9.00 VOFF= -4.00)
.MODEL S1BMOD VSWITCH (RON = 1e-5 ROFF = 0.1 VON = -4.00 VOFF= -9.00)
.MODEL S2AMOD VSWITCH (RON = 1e-5 ROFF = 0.1 VON = 0.00 VOFF= 0.50)
.MODEL S2BMOD VSWITCH (RON = 1e-5 ROFF = 0.1 VON = 0.50 VOFF= 0.00)

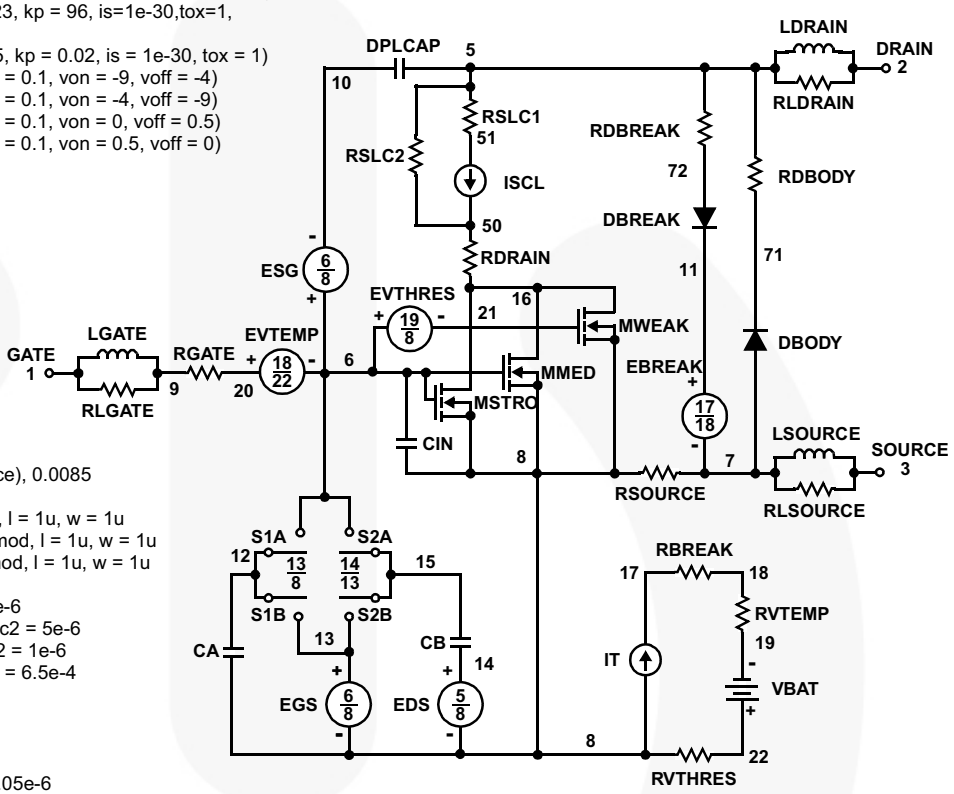
.ENDS

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.

SABER Electrical Model

REV 3 February 1999

```
template huf75345 n2, n1, n3
electrical n2, n1, n3
{
var i iscl
d..model dbodymod =  (is = 6e-12, xti = 5, cjo = 5.5e-9, tt = 5.9e-8, m=0.5, vj=0.75)
d..model dbreakmod = ()
d..model dplcapmod =  (cjo = 6.75e-9, is = 1e-30, m = 0.88, vj = 1.45,fc=0.5)
m..model mmedmod = (type=_n, vto = 2.93, kp = 13.75, is = 1e-30, tox = 1)
m..model mstrongmod = (type=_n, vto = 3.23, kp = 96, is=1e-30,tox=1,
lambda = 0.06)
m..model mweakmod = (type=_n, vto = 2.35, kp = 0.02, is = 1e-30, tox = 1)
sw_vcsp..model s1amod =  (ron = 1e-5, roff = 0.1, von = -9, voff = -4)
sw_vcsp..model s1bmod =  (ron = 1e-5, roff = 0.1, von = -4, voff = -9)
sw_vcsp..model s2amod =  (ron = 1e-5, roff = 0.1, von = 0, voff = 0.5)
sw_vcsp..model s2bmod =  (ron = 1e-5, roff = 0.1, von = 0.5, voff = 0)

c.ca n12 n8 = 5.55e-9
c.cb n15 n14 = 5.55e-9
c.cin n6 n8 = 3.45e-9

d.dbody n7 n71 = model=dbodymod
d.dbreak n72 n11 = model=dbreakmod
d.dplcap n10 n5 = model=dplcapmod

i.it n8 n17 = 1

l.ldrain n2 n5 = 1e-9
l.lgate n1 n9 = 2.6e-9
l.lsource n3 n7 = 1.1e-9
k.k1 i(l.lgate) i(l.lsource) = l(l.lgate), l(l.lsource), 0.0085

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 = 8e-4, tc2 = 4e-6
res.rdbody n71 n5 = 1.4e-3, tc1 = 2.75e-3, tc2 = 5e-6
res.rdbreak n72 n5 = 2.8e-2, tc1 = -4e-3, tc2 = 1e-6
res.rdrain n50 n16  = 1e-4, tc1 = 1.5e-1, tc2 = 6.5e-4
res.rgate n9 n20 = 0.36
res.rldrain n2 n5 = 10
res.rlgate n1 n9 = 26
res.rlsource n3 n7 = 11
res.rslc1 n5 n51  = 1e-6, tc1 = 1e-4, tc2 = 1.05e-6
res.rslc2 n5 n50 = 1e3
res.rsource n8 n7  = 3.15e-3, tc1 = 1e-3, tc2 = 0
res.rvtemp n18 n19  = 1, tc1 = -2.75e-3, tc2 = 1.45e-6
res.rvthres n22 n8  = 1, tc1 = -1.5e-3, tc2 = -2.6e-5

spe.ebreak n11 n7 n17 n18 = 56.7
spe.eds n14 n8 n5 n8 = 1
spe.egs n13 n8 n6 n8 = 1
spe.esg n6 n10 n6 n8 = 1
spe.evtemp n20 n6 n18 n22 = 1
spe.evthres n6 n21 n19 n8 = 1

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
iscl: v(n51,n50) = ((v(n5,n51)/(1e-9+abs(v(n5,n51))))*((abs(v(n5,n51)*1e6/500))** 3.5))
}
}
```



SPICE Thermal Model

REV 5 February 1999

HUF75345

CTHERM1 th 6 6.3e-3
CTHERM2 6 5 1.5e-2
CTHERM3 5 4 2.0e-2
CTHERM4 4 3 3.0e-2
CTHERM5 3 2 8.0e-2
CTHERM6 2 tl 1.5e-1

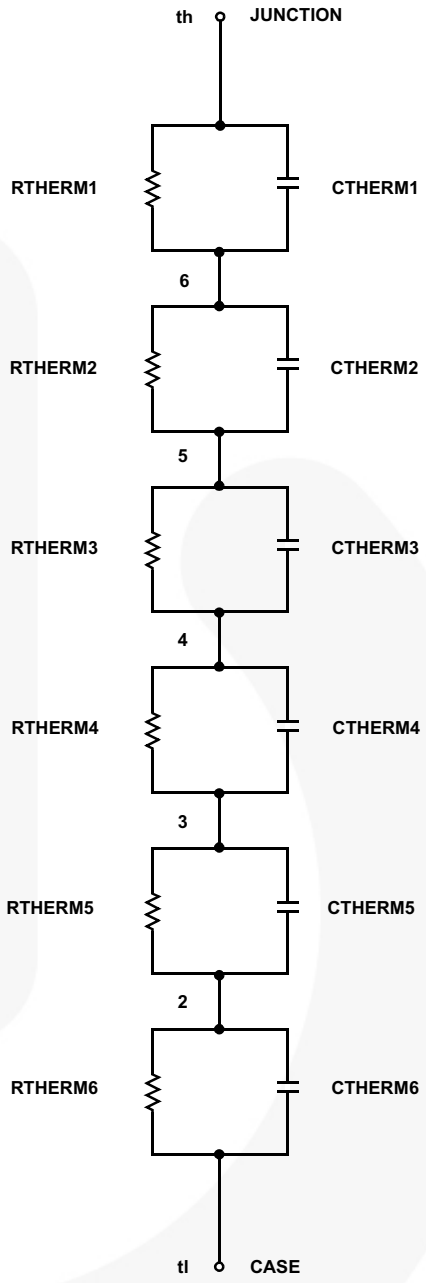
RTHERM1 th 6 5.0e-3
RTHERM2 6 5 1.8e-2
RTHERM3 5 4 5.0e-2
RTHERM4 4 3 8.5e-2
RTHERM5 3 2 1.0e-1
RTHERM6 2 tl 1.1e-1

SABER Thermal Model

SABER thermal model HUF75345

template thermal_model th tl
thermal_c th, tl
{
ctherm.ctherm1 th 6 = 6.3e-3
ctherm.ctherm2 6 5 = 1.5e-2
ctherm.ctherm3 5 4 = 2.0e-2
ctherm.ctherm4 4 3 = 3.0e-2
ctherm.ctherm5 3 2 = 8.0e-2
ctherm.ctherm6 2 tl = 1.5e-1

rtherm.rtherm1 th 6 = 5.0e-3
rtherm.rtherm2 6 5 = 1.8e-2
rtherm.rtherm3 5 4 = 5.0e-2
rtherm.rtherm4 4 3 = 8.5e-2
rtherm.rtherm5 3 2 = 1.0e-1
rtherm.rtherm6 2 tl = 1.1e-1
}



Mechanical Dimensions

TO-220 3L

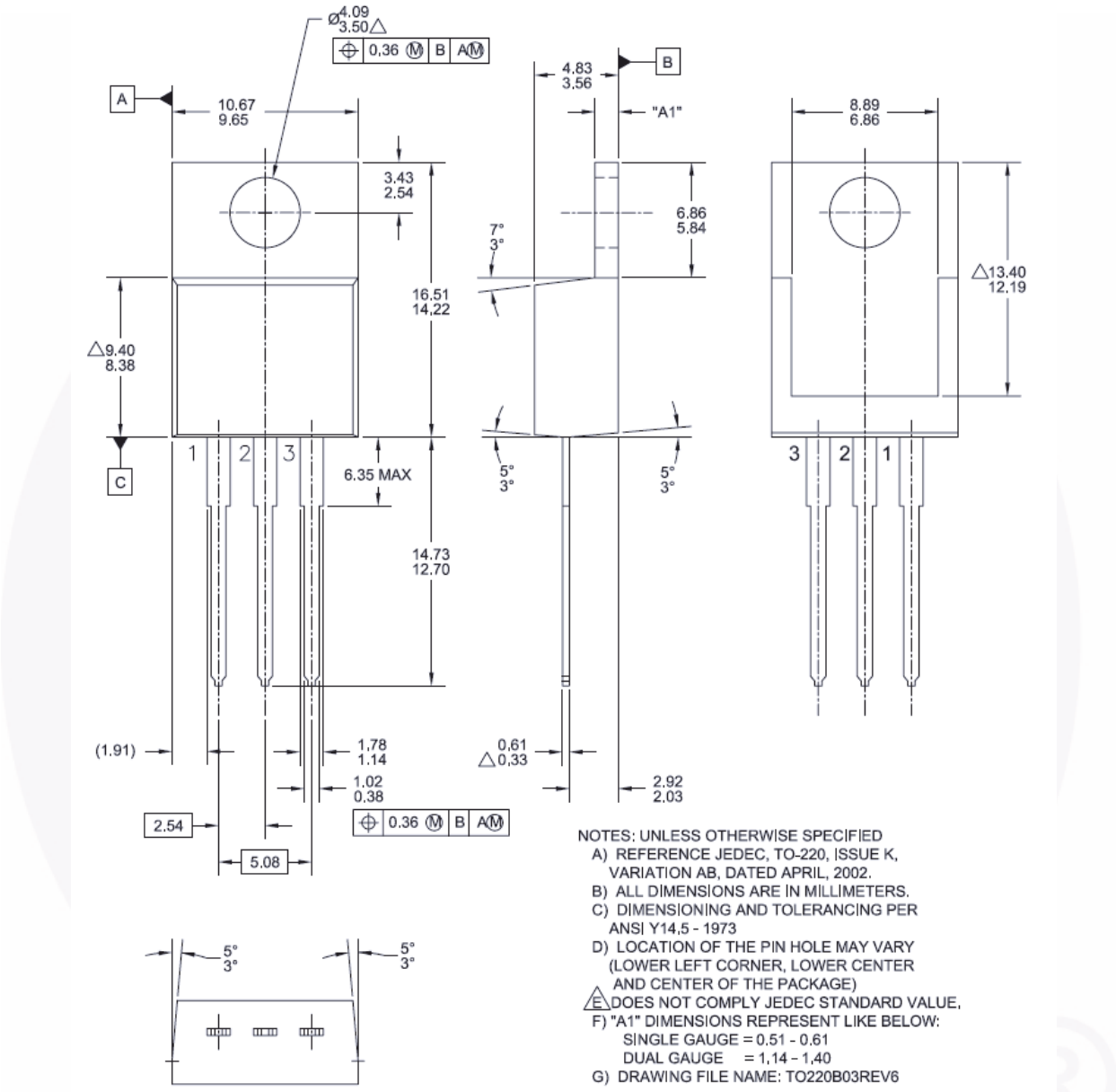


Figure 20. TO-220, Molded, 3Lead, Jedec Variation AB

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Dimension in Millimeters

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