

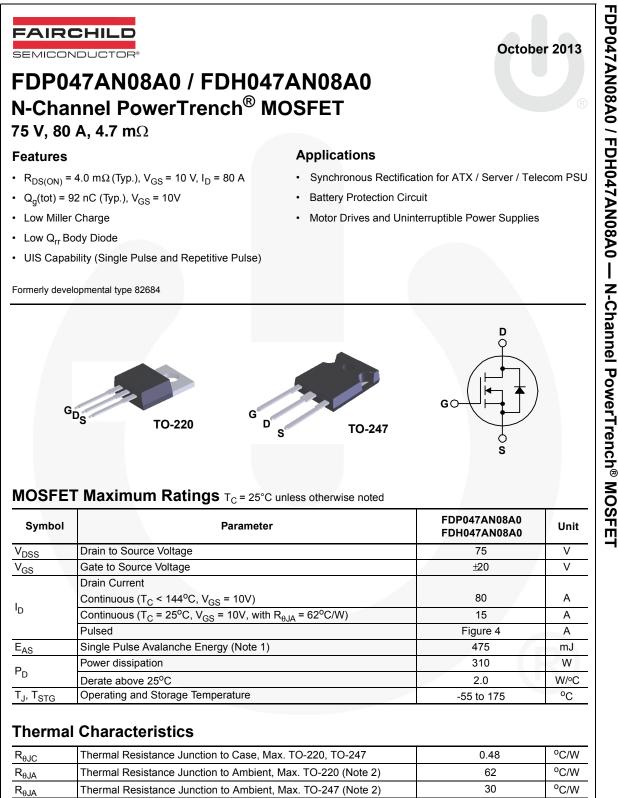
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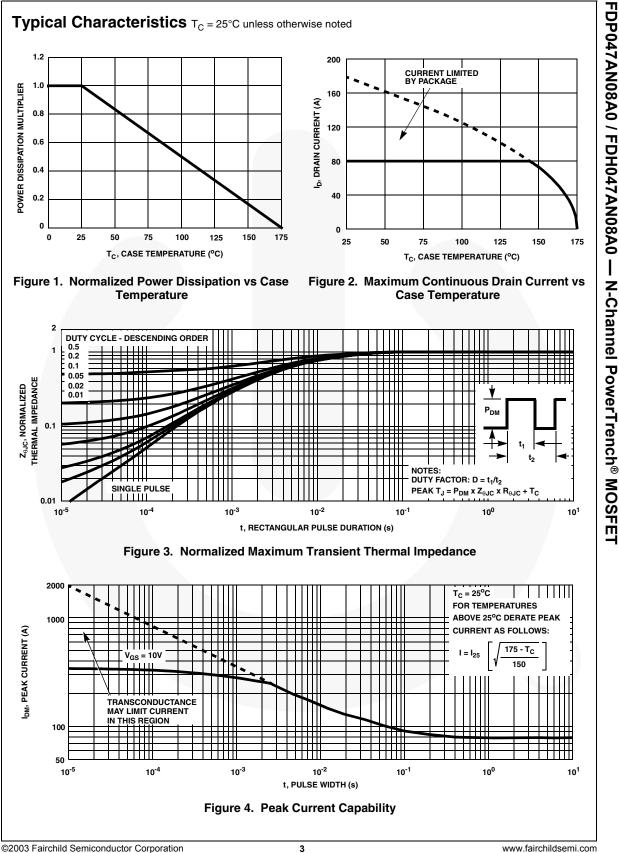
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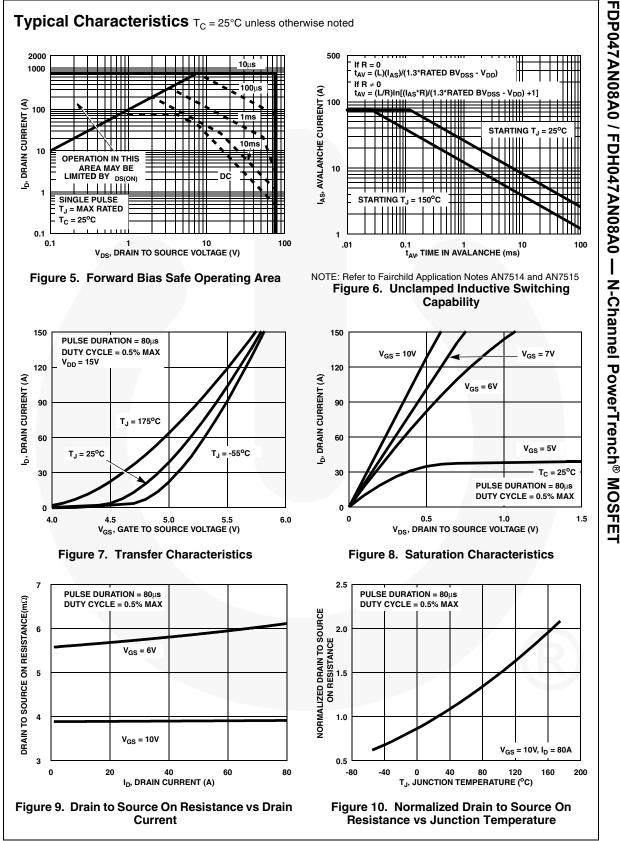


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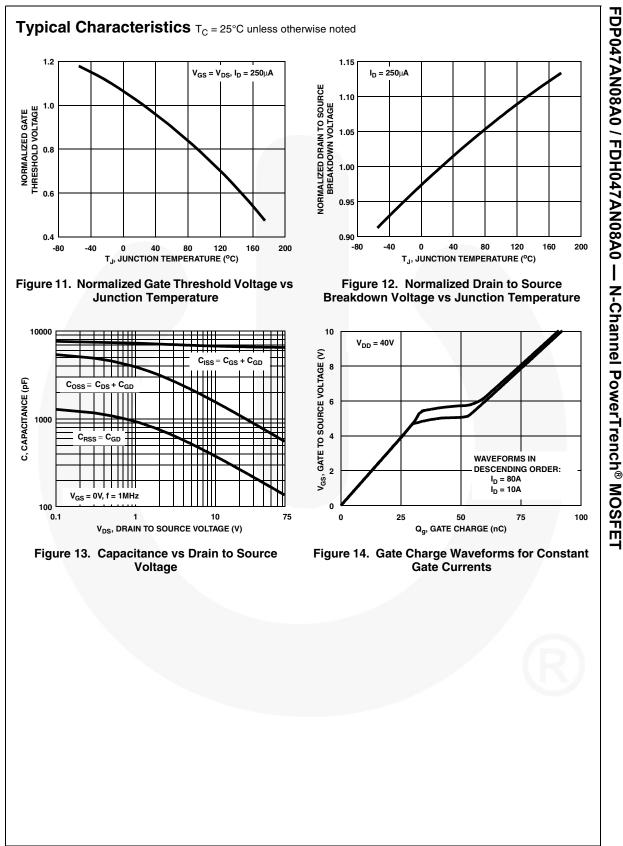
Device Marking FDP047AN08A0		Device	Package	Reel Size Tube	Tape Width N/A		Quantity 50 units	
		FDP047AN08A0	TO-220					
FDH047AN08A0 FDH047AN08A0		TO-247 Tube		N/A		30 units		
	al Char	acteristics T _C = 25°C				1 -		
Symbol	Parameter		Test Conditions		Min	Тур	Max	Unit
Off Chara	oteristic	S						
B _{VDSS}	Drain to S	ource Breakdown Voltage	$I_{\rm D} = 250 \mu A, V_{\rm GS} = 0 V$		75	-	-	V
	Zero Gate Voltage Drain Current		$V_{DS} = 60V$		-	-	1	A
DSS	Zero Gate	e voltage Drain Current	$V_{GS} = 0V$	T _C = 150°C	-	-	250	μA
I _{GSS}	Gate to Source Leakage Current		$V_{GS} = \pm 20V$		-	-	±100	nA
On Chara	ctoristic							
			$M_{} = M_{}$	25044	2		4	V
V _{GS(TH)}	Gate to Source Threshold Voltage			$V_{GS} = V_{DS}, I_D = 250 \mu A$		-		v
r _{DS(ON)}	Drain to Source On Resistance			$I_D = 80A, V_{GS} = 10V$ $I_D = 37A, V_{GS} = 6V$ $I_D = 80A, V_{GS} = 10V,$ $T_1 = 175^{\circ}C$		0.0040	0.0047	
						0.0058		Ω
			$T_{\rm J} = 80 \text{A}, V_{\rm C}$ $T_{\rm J} = 175^{\circ} \text{C}$			0.0082	0.011	
			0					
Dynamic	Characte	eristics				-		
C _{ISS}			V _{DS} = 25V, V _{GS} = 0V,		-	6600	-	pF
C _{OSS}			f = 1MHz			1000	-	pF
C _{RSS}	Reverse 1	ransfer Capacitance			-	240	-	pF
Q _{g(TOT)}	Total Gate	e Charge at 10V	$V_{GS} = 0V$ to		-	92	138	nC
Q _{g(TH)}	Threshold Gate Charge		$V_{GS} = 0V$ to 2	$V_{DD} = 40V$	-	11	17	nC
Q _{gs}	Gate to S	ource Gate Charge		I _D = 80A	-	27	-	nC
Q _{gs2}	Gate Charge Threshold to Plateau		<u></u>	$I_g = 1.0 \text{mA}$	-	16	-	nC
Q _{gd}	Gate to D	rain "Miller" Charge			-	21	-	nC
Switching	charac	teristics (V _{GS} = 10V)						
t _{ON}	Turn-On Time				L -	-	160	ns
t _{d(ON)}	Turn-On Delay Time		_		-	18	-	ns
tr	Rise Time		V _{DD} = 40V, I _D = 80A		-	88	-	ns
t _{d(OFF)}	Turn-Off Delay Time			$V_{GS} = 10V, R_{GS} = 3.3\Omega$		40	-	ns
t _f	Fall Time Turn-Off Time					45	7	ns
t _{OFF}						-	128	ns
Drain-Sol	urce Diod	le Characteristics						
V _{SD}	Source to Drain Diode Voltage		I _{SD} = 80A		-	-	1.25	V
			$I_{SD} = 40A$		-	-	1.0	V
t _{rr} Q _{RR}	-	Reverse Recovery Time $I_{SD} = 75A$, $dI_{SD}/dt = 100A/\mu$			-	-	53	ns nC
	Reverse Recovered Charge		I_{SD} = 75A, dI_{SD}/dt = 100A/µs		-	-	54	пс



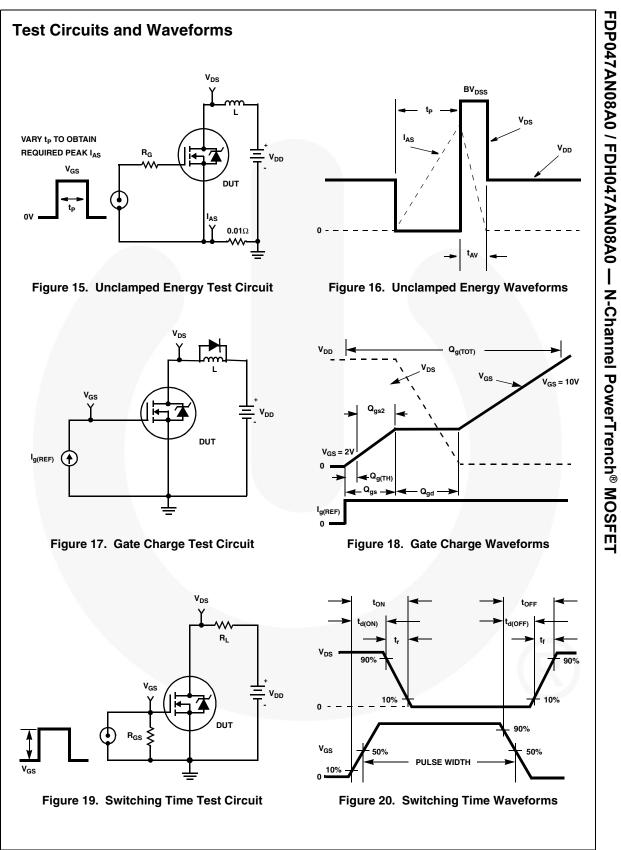
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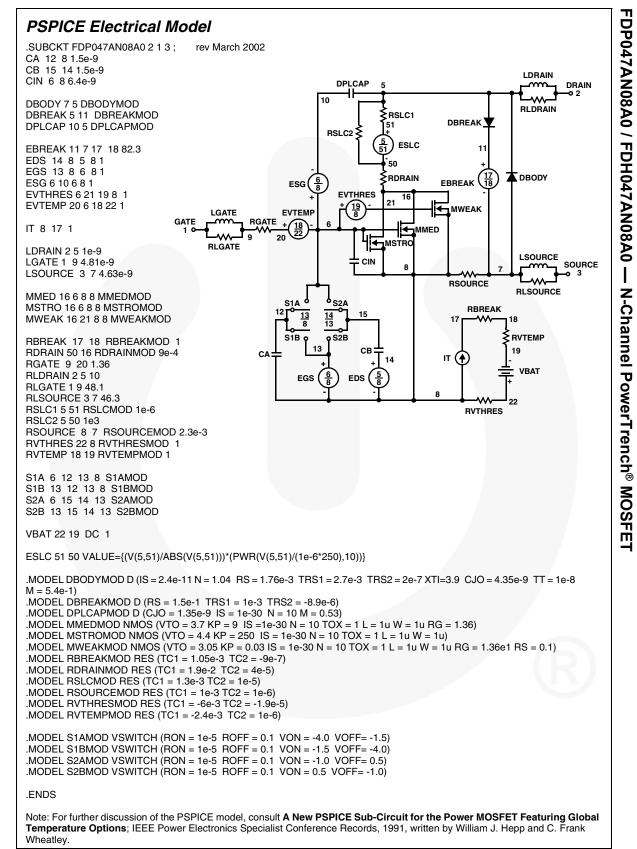


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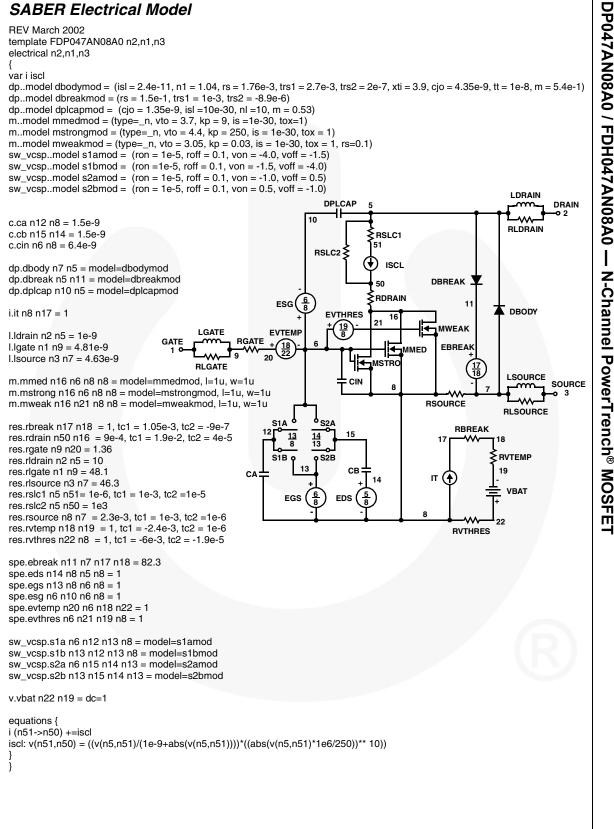


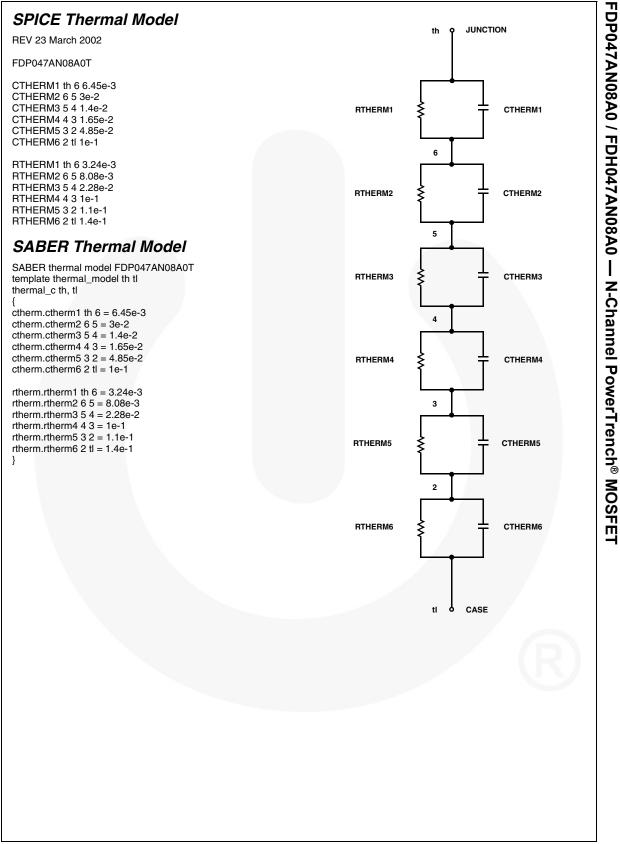
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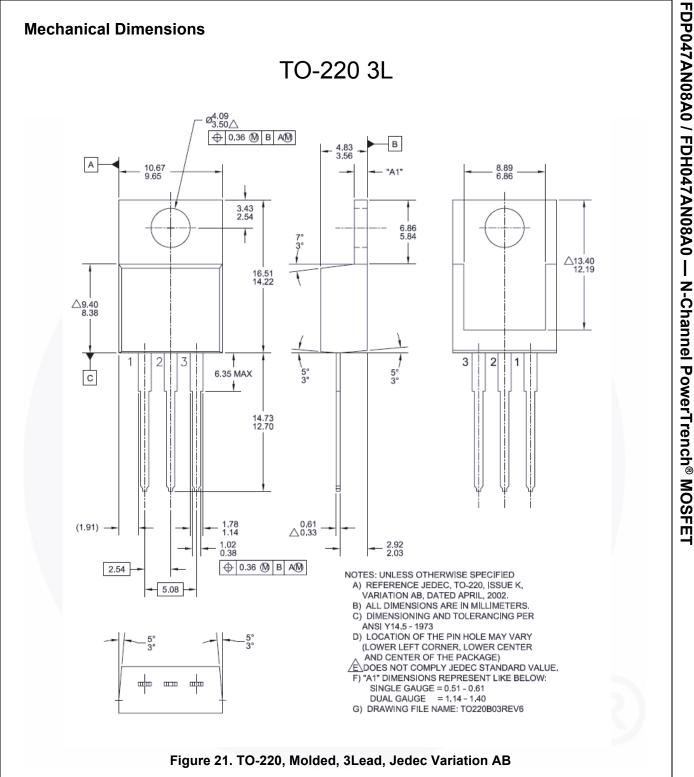




SABER Electrical Model





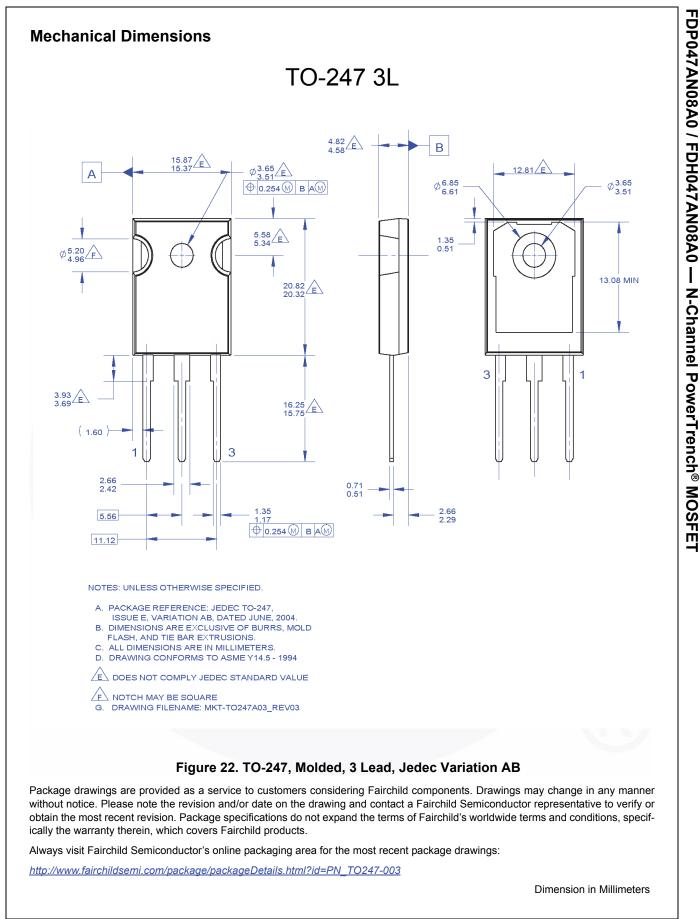


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Dimension in Millimeters





Rev 166

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