

Is Now Part of

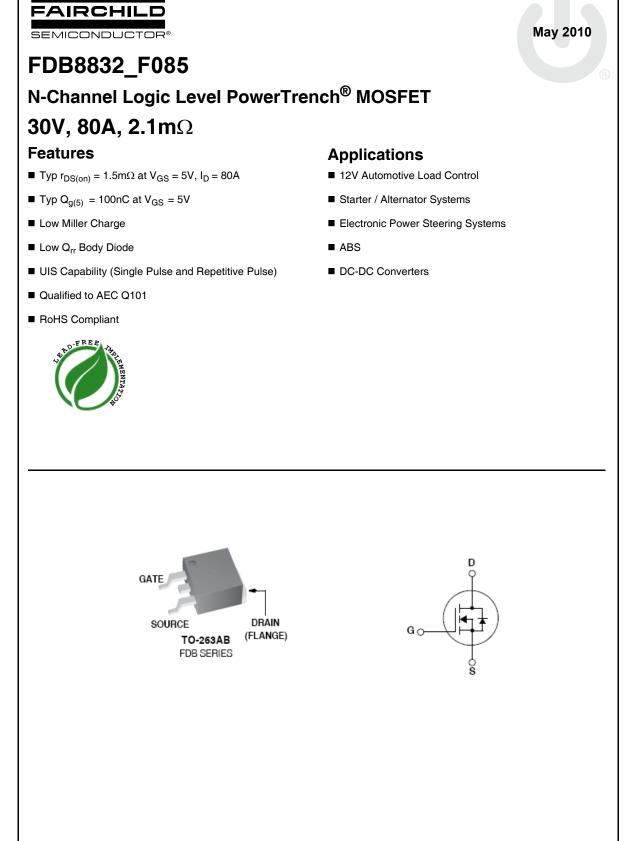


# **ON Semiconductor**®

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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (\_), the underscore (\_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (\_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at <a href="mailto:www.onsemi.com">www.onsemi.com</a>. Please email any questions regarding the system integration to <a href="mailto:Fairchild\_questions@onsemi.com">Fairchild\_questions@onsemi.com</a>.

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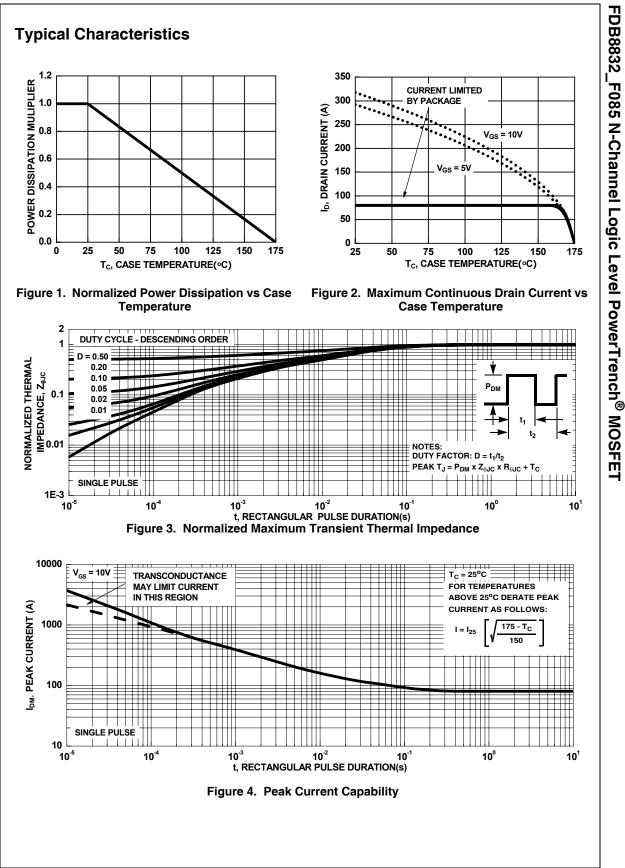


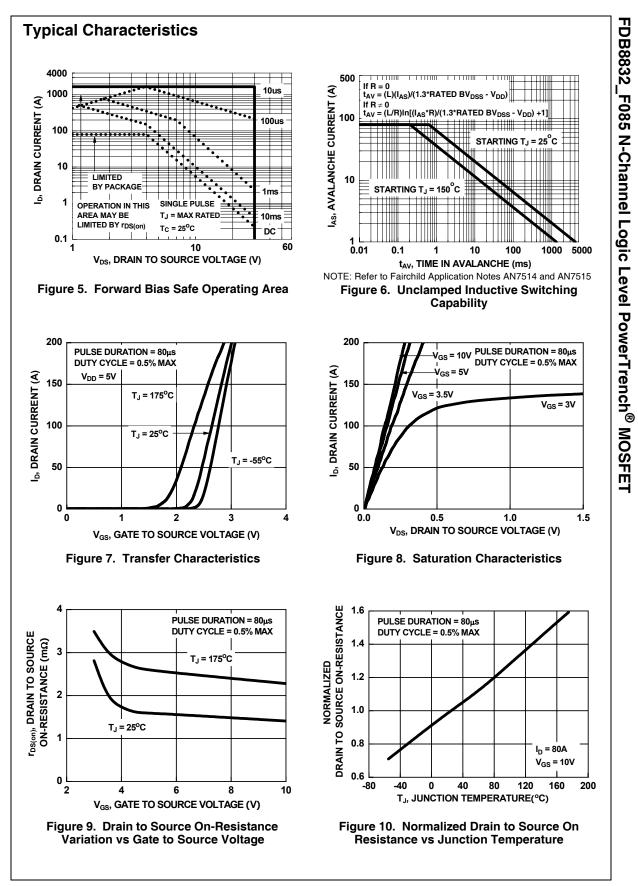
Symbol	Parameter					Ratings			Units		
V <sub>DSS</sub>	Drain to Source Voltage						30			V	
V <sub>GS</sub>	Gate to Source Voltage					±20			V		
	Drain Current Continuous (T <sub>C</sub> < 165°C, V <sub>GS</sub> = 10V)					80					
I <sub>D</sub>	Drain Current Continuous ( $T_C < 163^{\circ}C$ , $V_{GS} = 5V$ )					80			A		
.0	Drain Current Continuous ( $T_{amb} = 25^{\circ}C$ , $V_{GS} = 10V$ , with $R_{\theta JA} = 43^{\circ}C/W$ )					34					
	Pulsed					See Figure 4					
E <sub>AS</sub>	Single Pulse Avalanche Energy (Note 1)					1246			mJ		
P <sub>D</sub>	Power Dissipation					300			W		
	Derate above 25°C						2			W/ºC	
		and Storage Temp	erature					-55 to +17	'5	°C	
Therm	al Cha	racteristics									
$R_{ ext{ heta}JC}$	Thermal R	esistance, Junction	to Case				0.5			°C/W	
$R_{ heta JA}$	Thermal R	esistance, Junction	to Ambient			(Note 2)	62		°C/W		
$R_{ heta JA}$	Thermal R	esistance, Junction	to Ambient, I	lin <sup>2</sup> copper pad area				43		°C/W	
	ge Mar	king and Or	derina In	for	nation		1			-	
	Marking	Device	Package		Reel Size	Та	pe Widt	h	Quant	titv	
	38832	FDB8832 F085	TO-263A		330mm		24mm			-	
101	JUUUL	1 00002_1 000	10 200/	SAB SSUIIII			2711111		800 units		
Electr	ical Cha	aracteristics	5 T <sub>J</sub> = 25°C u	nless o	otherwise note	d					
Symbol		Parameter			Test Condition	ons	Min	Тур	Max	Units	
Off Cha	racterist	ics									
B <sub>VDSS</sub>	Drain to So	ource Breakdown V	oltage	I <sub>D</sub> = 2	50μA, V <sub>GS</sub> = 0	V	30	-	-	V	
- 1035			•	$V_{\rm DS} = 24V$			-	-	1		
I <sub>DSS</sub>	Zero Gate Voltage Drain Current		ent	$V_{GS} = 0V$ $T_J = 150^{\circ}C$			-	-	250	μΑ	
I <sub>GSS</sub>	Gate to Sc	ource Leakage Curr	ent	V <sub>GS</sub> =		,	-	-	±100	nA	
	racterist	ics						1		1	
	T			$V_{DS} = V_{GS}, I_D = 250 \mu A$						T	
	Gate to Sc	surce Threshold Vo	Itage		$V_{co}$ $l_{p} = 250$	цА	10	16	3.0	V	
	Gate to So	ource Threshold Vo					1.0 -	1.6 1.4	3.0 1.9	V	
	Gate to So	ource Threshold Vo		I <sub>D</sub> = 80	0A, V <sub>GS</sub> = 10V		-	1.4	1.9	V	
V <sub>GS(th)</sub>		ource Threshold Vo		$I_{\rm D} = 80$ $I_{\rm D} = 80$	0A, V <sub>GS</sub> = 10V 0A, V <sub>GS</sub> = 5V	,	1.0 - -	1.4 1.5	1.9 2.1	-	
			ce	$I_{\rm D} = 80$ $I_{\rm D} = 80$ $I_{\rm D} = 80$	0A, V <sub>GS</sub> = 10V 0A, V <sub>GS</sub> = 5V 0A, V <sub>GS</sub> = 4.5V	/	-	1.4 1.5 1.6	1.9 2.1 2.2	 	
V <sub>GS(th)</sub>			ce	$I_{\rm D} = 80$ $I_{\rm D} = 80$ $I_{\rm D} = 80$	0A, V <sub>GS</sub> = 10V 0A, V <sub>GS</sub> = 5V 0A, V <sub>GS</sub> = 4.5V 0A, V <sub>GS</sub> = 10V	/	-	1.4 1.5	1.9 2.1	-	
V <sub>GS(th)</sub> r <sub>DS(on)</sub> Dynam	Drain to Si	ource On Resistand	ce	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$	0A, V <sub>GS</sub> = 10V 0A, V <sub>GS</sub> = 5V 0A, V <sub>GS</sub> = 4.5V 0A, V <sub>GS</sub> = 10V	/	-	1.4 1.5 1.6	1.9 2.1 2.2	-	
V <sub>GS(th)</sub> r <sub>DS(on)</sub> Dynam C <sub>iss</sub>	Drain to S	ource On Resistand	ce	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $T_{J} = 1$	$\begin{array}{l} \text{DA, } V_{\text{GS}} = 10 \text{V} \\ \text{DA, } V_{\text{GS}} = 5 \text{V} \\ \text{DA, } V_{\text{GS}} = 4.5 \text{V} \\ \text{DA, } V_{\text{GS}} = 10 \text{V} \\ \text{DA, } V_{\text{GS}} = 10 \text{V} \\ \text{75}^{\circ}\text{C} \end{array}$	/	-	1.4 1.5 1.6	1.9 2.1 2.2	-	
V <sub>GS(th)</sub> r <sub>DS(on)</sub>	Drain to S ic Charac Input Capa Output Ca	ource On Resistand cteristics acitance pacitance	ce	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $T_{J} = 1$ $V_{DS} = 80$	$\begin{array}{l} \text{DA, } V_{\text{GS}} = 10\text{V}\\ \text{DA, } V_{\text{GS}} = 5\text{V}\\ \text{DA, } V_{\text{GS}} = 4.5\text{V}\\ \text{DA, } V_{\text{GS}} = 10\text{V}\\ \text{75^{\circ}C}\\ \end{array}$	/	-	1.4 1.5 1.6 2.3	1.9 2.1 2.2	mΩ	
V <sub>GS(th)</sub> r <sub>DS(on)</sub> Dynam C <sub>iss</sub>	Drain to S ic Charac Input Capa Output Ca	ource On Resistand cteristics acitance	ce	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $T_{J} = 1$ $V_{DS} = f = 1M$	DA, $V_{GS} = 10V$ DA, $V_{GS} = 5V$ DA, $V_{GS} = 4.5V$ DA, $V_{GS} = 10V$ 75°C 15V, $V_{GS} = 0$ IHz	, , , ,	- - -	1.4 1.5 1.6 2.3 11400	1.9         2.1         2.2         3.0	mΩ pF	
V <sub>GS(th)</sub> r <sub>DS(on)</sub> Dynam C <sub>iss</sub> C <sub>oss</sub> C <sub>rss</sub> R <sub>G</sub>	Drain to S ic Charac Input Capa Output Ca Reverse T Gate Resi	ource On Resistand cteristics acitance pacitance 'ransfer Capacitanc stance	ce	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $T_{J} = 1$ $V_{DS} = f = 1M$ $V_{GS} = 0$	DA, $V_{GS} = 10V$ DA, $V_{GS} = 5V$ DA, $V_{GS} = 4.5V$ DA, $V_{GS} = 10V$ 75°C 15V, $V_{GS} = 0^{\circ}$ IHz	, , , ,	- - - - -	1.4 1.5 1.6 2.3 11400 2140 1260 1.2	1.9 2.1 2.2 3.0 - -	mΩ pF pF	
V <sub>GS(th)</sub> T <sub>DS(on)</sub> C <sub>iss</sub> C <sub>oss</sub> C <sub>rss</sub> R <sub>G</sub>	Drain to S ic Charao Input Capa Output Ca Reverse T Gate Resi Total Gate	ource On Resistant cteristics acitance pacitance ransfer Capacitance stance o Charge at 10V	ce	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $T_{J} = 1$ $V_{DS} = f = 1M$ $V_{GS} = V_{GS} = 0$	$\begin{array}{c} \text{DA, } V_{\text{GS}} = 10\text{V}\\ \text{DA, } V_{\text{GS}} = 5\text{V}\\ \text{DA, } V_{\text{GS}} = 4.5\text{V}\\ \text{DA, } V_{\text{GS}} = 4.5\text{V}\\ \text{DA, } V_{\text{GS}} = 10\text{V}\\ \text{75^{\circ}C}\\ \end{array}$	, , , ,	· · · ·	1.4 1.5 1.6 2.3 11400 2140 1260 1.2 204	1.9 2.1 2.2 3.0 - - -	mΩ pF pF	
V <sub>GS(th)</sub> r <sub>DS(on)</sub> Dynam C <sub>iss</sub> C <sub>oss</sub> C <sub>rss</sub> R <sub>G</sub> Q <sub>g(TOT)</sub>	Drain to S ic Charae Input Capa Output Ca Reverse T Gate Resi Total Gate Total Gate	ource On Resistant cteristics acitance pacitance iransfer Capacitance stance e Charge at 10V e Charge at 5V	ce	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $T_{J} = 1$ $V_{DS} = 1$ $V_{GS} = 1$ $V_{GS} = 1$ $V_{GS} = 1$	DA, $V_{GS} = 10V$ DA, $V_{GS} = 5V$ DA, $V_{GS} = 4.5V$ DA, $V_{GS} = 10V$ 75°C 15V, $V_{GS} = 10V$ 15V, $V_{GS} = 0^{\circ}$ IHZ 0.5V, f = 1MH 0 to 10V 0 to 5V	/ / / / / / / / / / / / / / / / / / /	- - - - - - -	1.4         1.5         1.6         2.3         11400         2140         1260         1.2         204         100	1.9 2.1 2.2 3.0 - - - 265 130	mΩ pF pF pF	
$\frac{V_{GS}(th)}{r_{DS}(on)}$	Drain to S ic Charac Input Cap Output Ca Reverse T Gate Resi Total Gate Total Gate Threshold	ource On Resistant cteristics acitance pacitance ransfer Capacitance stance charge at 10V charge at 5V Gate Charge	ce	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $T_{J} = 1$ $V_{DS} = 1$ $V_{GS} = 1$ $V_{GS} = 1$ $V_{GS} = 1$	$\begin{array}{c} \text{DA, } V_{\text{GS}} = 10\text{V}\\ \text{DA, } V_{\text{GS}} = 5\text{V}\\ \text{DA, } V_{\text{GS}} = 5\text{V}\\ \text{DA, } V_{\text{GS}} = 4.5\text{V}\\ \text{DA, } V_{\text{GS}} = 10\text{V}\\ \text{75^{\circ}C}\\ \end{array}$ $\begin{array}{c} 15\text{V, } V_{\text{GS}} = 0\text{V}\\ \text{Hz}\\ \hline 0.5\text{V, } f = 1\text{MH}\\ \hline 0 \text{ to } 10\text{V}\\ \hline 0 \text{ to } 5\text{V}\\ \hline 0 \text{ to } 5\text{V}\\ \hline 0 \text{ to } 1\text{V}\\ \hline \end{array}$	/ / / / / / / / / / / / / / / / / / /	- - - - - - -	1.4           1.5           1.6           2.3           11400           2140           1260           1.2           204           100           10.9	1.9 2.1 2.2 3.0 - - - - - 265	mΩ pF pF pF Ω nC nC	
$V_{GS(th)}$ $r_{DS(on)}$ $Dynam$ $C_{iss}$ $C_{rss}$ $R_{G}$ $Q_{g(TOT)}$ $Q_{g(5)}$ $Q_{gS}$	Drain to S ic Charae Input Capa Output Ca Reverse T Gate Resi Total Gate Total Gate Threshold Gate to Sc	ource On Resistant cteristics acitance pacitance ransfer Capacitance stance charge at 10V charge at 5V Gate Charge purce Gate Charge	ce	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $T_{J} = 1$ $V_{DS} = 1$ $V_{GS} = 1$ $V_{GS} = 1$ $V_{GS} = 1$	$\begin{array}{c} \text{DA, } V_{\text{GS}} = 10\text{V}\\ \text{DA, } V_{\text{GS}} = 5\text{V}\\ \text{DA, } V_{\text{GS}} = 5\text{V}\\ \text{DA, } V_{\text{GS}} = 4.5\text{V}\\ \text{DA, } V_{\text{GS}} = 10\text{V}\\ 75^{\circ}\text{C}\\ \end{array}$ $\begin{array}{c} 15\text{V, } V_{\text{GS}} = 0\text{V}\\ \text{Hz}\\ \hline 0.5\text{V, } f = 1\text{MH}\\ \hline 0 \text{ to } 10\text{V}\\ \hline 0 \text{ to } 5\text{V}\\ \hline 0 \text{ to } 1\text{V}\\ \hline 0 \text{ to } 1\text{V}\\ \end{array}$	/ / / / / / / / / / / / / / / / / / /	- - - - - - - - - - - - - - - - -	1.4         1.5         1.6         2.3         11400         2140         1260         1.2         204         100         10.9         33	1.9 2.1 2.2 3.0 - - - 265 130	mΩ pF pF Ω nC nC nC	
$\frac{V_{GS}(th)}{r_{DS}(on)}$	Drain to Si ic Charae Input Capa Output Ca Reverse T Gate Resi Total Gate Total Gate Threshold Gate to Sc Gate Char	ource On Resistant cteristics acitance pacitance ransfer Capacitance stance charge at 10V charge at 5V Gate Charge	ce e ateau	$I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $I_{D} = 80$ $T_{J} = 1$ $V_{DS} = 1$ $V_{GS} = 1$ $V_{GS} = 1$ $V_{GS} = 1$	$\begin{array}{c} \text{DA, } V_{\text{GS}} = 10\text{V}\\ \text{DA, } V_{\text{GS}} = 5\text{V}\\ \text{DA, } V_{\text{GS}} = 5\text{V}\\ \text{DA, } V_{\text{GS}} = 4.5\text{V}\\ \text{DA, } V_{\text{GS}} = 10\text{V}\\ 75^{\circ}\text{C}\\ \end{array}$ $\begin{array}{c} 15\text{V, } V_{\text{GS}} = 0\text{V}\\ \text{Hz}\\ \hline 0.5\text{V, } f = 1\text{MH}\\ \hline 0 \text{ to } 10\text{V}\\ \hline 0 \text{ to } 5\text{V}\\ \hline 0 \text{ to } 1\text{V}\\ \hline 0 \text{ to } 1\text{V}\\ \end{array}$	/ / / / / / / / / / / / / / / / / / /	- - - - - - - - - - - - - - - - - - -	1.4           1.5           1.6           2.3           11400           2140           1260           1.2           204           100           10.9	1.9 2.1 2.2 3.0 - - - 265 130	mΩ pF pF pF Ω nC nC	

FDB8832\_F085 N-Channel Logic Level PowerTrench<sup>®</sup> MOSFET

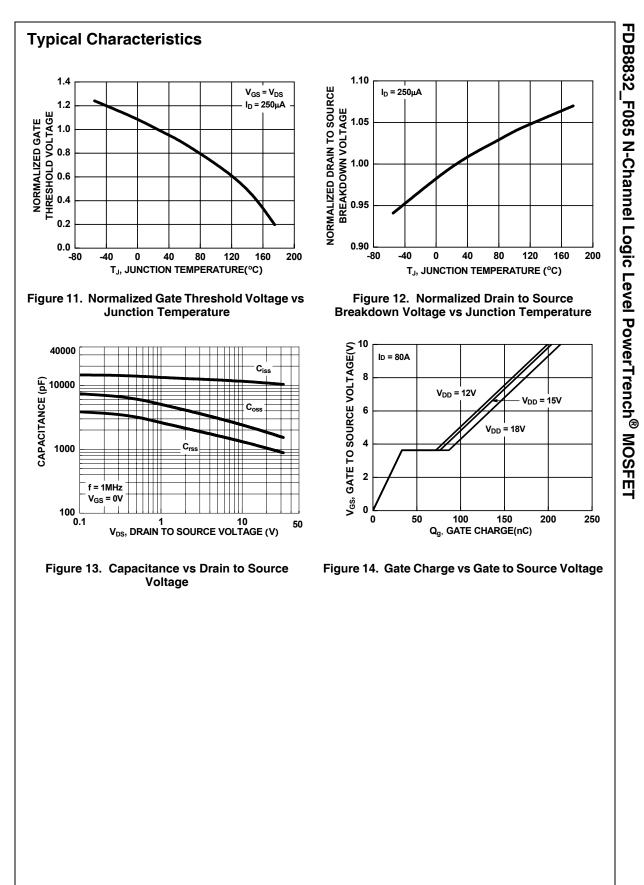
Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
Switchi	ng Characteristics					
t <sub>(on)</sub>	Turn-On Time		-	-	155	ns
t <sub>d(on)</sub>	Turn-On Delay Time	V <sub>DD</sub> = 15V, I <sub>D</sub> = 80A	-	24	-	ns
t <sub>r</sub>	Turn-On Rise Time		-	73	-	ns
t <sub>d(off)</sub>	Turn-Off Delay Time	$V_{GS} = 5V, R_{GS} = 1.5\Omega$	-	54	-	ns
t <sub>f</sub>	Turn-Off Fall Time		-	38	-	ns
t <sub>off</sub>	Turn-Off Time		-	-	149	ns
		I <sub>SD</sub> = 75A	-	0.8	1.25	V
Drain-S	ource Diode Characteristics			1	1	
$V_{SD}$	Source to Drain Diode Voltage	$I_{SD} = 40A$	-	0.8	1.0	V
t <sub>rr</sub>	Reverse Recovery Time	$I_F = 75A$ , di/dt = 100A/µs	-	59	77	ns
Q <sub>rr</sub>	Reverse Recovery Charge	I <sub>F</sub> = 75A, di/dt = 100A/μs	-	67	87	nC
1: Starting T 2: Pulse widt	<sub>J</sub> = 25°C, L = 0.61mH, I <sub>AS</sub> = 64A, V <sub>DD</sub> = 30V, V <sub>GS</sub> = h = 100s.	- 10V.				

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/ All Fairchild Semiconductor products are manufactured, assembled and tested under ISO9000 and QS9000 quality systems certification.





FDB8832\_F085 Rev. A1



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#### Definition of Terms

Datasheet Identification	Product Status	Definition
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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.
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