

Symbol	Parameter						Ratings			Units
V _{DSS}	Drain to Source Voltage					30			V	
V _{GS}	Gate to Source Voltage					±20			V	
	Drain Current Continuous ($T_C < 165^{\circ}C$, $V_{GS} = 10V$)					80			_	
I _D		Drain Current Continuous (T _C < 163ºC, V _{GS} = 5V)					80			А
	Drain Current Continuous (T_{amb} = 25°C, V_{GS} = 10V, with $R_{\theta JA}$ = 43°C/W)					34			_	
_	Pulsed					See Figure 4				
AS	Single Pulse Avalanche Energy (Note 1)				1246			mJ		
D D	Power Dissipation						300			W
	Derate above 25°C Operating and Storage Temperature					2			W/ºC	
			berature					-55 to +1	75	°C
	hal Char	acteristics								T
$R_{ ext{ heta}JC}$	Thermal Re	Thermal Resistance, Junction to Case						0.5		
$R_{ hetaJA}$	Thermal Re	esistance, Junctio	n to Ambient	(Note 2)			62			°C/W
$R_{ heta JA}$	Thermal Re	esistance, Junctio	n to Ambient,	lin ² copper pad area			43			°C/V
Packa	ge Marl	king and O	dering li	nformation	l					
Device	Marking	Device	Packag	e Reel	Size	Тар	e Width	1	Quan	tity
	38832	FDB8832	TO-263A			-	24mm		800 ui	-
)ff Cha	aractorist	Parameter		Test Co	nditions		Min	Тур	Мах	Units
Off Cha	aracterist						Min	Тур	Мах	Units
	1		Voltage	I _D = 250μA, V _G			30	Тур -	-	Units V
B _{VDSS}	Drain to So	ics	-	I _D = 250μA, V _G V _{DS} = 24V	_S = 0V		30 -		- 1	
B _{VDSS} DSS	Drain to Sc Zero Gate	ics burce Breakdown Voltage Drain Cur	rrent	$I_D = 250 \mu A, V_G$ $V_{DS} = 24 V$ $V_{GS} = 0 V$		°C	30 - -		- 1 250	V µA
B _{VDSS} DSS GSS	Drain to So Zero Gate Gate to So	ics burce Breakdown Voltage Drain Cur urce Leakage Cur	rrent	I _D = 250μA, V _G V _{DS} = 24V	_S = 0V	°C	30 -		- 1	V
B _{VDSS} I _{DSS} I _{GSS} Dn Cha	Drain to So Zero Gate Gate to So	ics ource Breakdown Voltage Drain Cur urce Leakage Cur ics	rrent	$I_D = 250 \mu A, V_G$ $V_{DS} = 24 V$ $V_{GS} = 0 V$ $V_{GS} = \pm 20 V$	_S = 0V T _J = 150	°C	30 - - -	-	- 1 250 ±100	μA nA
B _{VDSS} I _{DSS} I _{GSS} Dn Cha	Drain to So Zero Gate Gate to So	ics burce Breakdown Voltage Drain Cur urce Leakage Cur	rrent	$I_{D} = 250\mu A, V_{G}$ $V_{DS} = 24V$ $V_{GS} = 0V$ $V_{GS} = \pm 20V$ $V_{DS} = V_{GS}, I_{D} =$	_S = 0V T _J = 150 250μA	°C	30 - -	- - - - 1.6	- 1 250 ±100	V µA
B _{VDSS} I _{DSS} I _{GSS}	Drain to So Zero Gate Gate to So	ics ource Breakdown Voltage Drain Cur urce Leakage Cur ics	rrent	$\begin{split} & I_{D} = 250 \mu A, \ V_{G} \\ & V_{DS} = 24 V \\ & V_{GS} = 0 V \\ & V_{GS} = \pm 20 V \\ \end{split} \\ & V_{DS} = V_{GS}, \ I_{D} = \\ & I_{D} = 80A, \ V_{GS} = \end{split}$	_S = 0V T _J = 150 250μA 10V	°C	30 - - 1.0	- - - - 1.6 1.4	- 1 250 ±100 3.0 1.9	V μA nA
B _{VDSS} I _{DSS} I _{GSS} Dn Cha V _{GS(th)}	Drain to Sc Zero Gate Gate to So aracterist Gate to So	ics ource Breakdown Voltage Drain Cur urce Leakage Cur ics	rrent oltage	$\begin{split} I_{D} &= 250 \mu A, V_{G} \\ V_{DS} &= 24 V \\ V_{GS} &= 0 V \\ V_{GS} &= \pm 20 V \\ \end{split} \\ \end{split} \\ \end{split} \\ \begin{split} V_{DS} &= V_{GS}, I_{D} &= \\ I_{D} &= 80A, V_{GS} &= \\ I_{D} &= 80A, V_{GS} &= \\ \end{split}$	S = 0V T _J = 150 2250μA 10V 5V	°C	30 - - - 1.0 -	- - - - 1.6	- 1 250 ±100	V μA nA V
B _{VDSS} DSS GSS Dn Cha	Drain to Sc Zero Gate Gate to So aracterist Gate to So	ics burce Breakdown Voltage Drain Cur urce Leakage Cur ics burce Threshold V	rrent oltage	$I_{D} = 250 \mu A, V_{G}$ $V_{DS} = 24V$ $V_{GS} = 0V$ $V_{GS} = \pm 20V$ $I_{D} = 80A, V_{GS} = I_{D} =$	S = 0V $T_J = 150$ $2250\mu A$ 10V 5V 4.5V	°C	30 - - 1.0 -	- - - - 1.6 1.4 1.5 1.6	- 1 250 ±100 3.0 1.9 2.1 2.2	V μA nA
B _{VDSS} DSS GSS Dn Cha	Drain to Sc Zero Gate Gate to So aracterist Gate to So	ics burce Breakdown Voltage Drain Cur urce Leakage Cur ics burce Threshold V	rrent oltage	$\begin{split} I_{D} &= 250 \mu A, V_{G} \\ V_{DS} &= 24 V \\ V_{GS} &= 0 V \\ V_{GS} &= \pm 20 V \\ \end{split} \\ \end{split} \\ \end{split} \\ \begin{split} V_{DS} &= V_{GS}, I_{D} &= \\ I_{D} &= 80A, V_{GS} &= \\ I_{D} &= 80A, V_{GS} &= \\ \end{split}$	S = 0V $T_J = 150$ $2250\mu A$ 10V 5V 4.5V	°C	30 - - 1.0 -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1	V μA nA V
B _{VDSS} DSS GSS Dn Cha V _{GS(th)} DS(on)	Drain to So Zero Gate Gate to So aracterist Gate to So Drain to So ic Charac	ics burce Breakdown Voltage Drain Cur urce Leakage Cur ics burce Threshold V burce On Resistar	rrent oltage	$I_{D} = 250 \mu A, V_{G}$ $V_{DS} = 24V$ $V_{GS} = 0V$ $V_{GS} = \pm 20V$ $I_{D} = 80A, V_{GS} = I_{D} =$	S = 0V $T_J = 150$ $2250\mu A$ 10V 5V 4.5V	°C	30 - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0	V μA nA V mΩ
B _{VDSS} DSS GSS Dn Cha V _{GS} (th) DS(on) DS(on)	Drain to So Zero Gate Gate to So aracteristi Gate to So Drain to So ic Charac	ics burce Breakdown Voltage Drain Cur urce Leakage Cur ics burce Threshold V burce On Resistar	rrent oltage	$\begin{split} & I_{D} = 250 \mu A, V_{G} \\ & V_{DS} = 24V \\ & V_{GS} = 0V \\ & V_{GS} = \pm 20V \\ \end{split} \\ \\ & V_{DS} = V_{GS}, I_{D} = \\ & I_{D} = 80A, V_{GS} = \\ & T_{J} = 175^{\circ}C \\ \end{split}$	S = 0V T _J = 150 250μA 10V 5V 4.5V 10V	°C	30 - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0	V μA nA V mΩ
B _{VDSS} DSS GSS Dn Cha V _{GS} (th) DS(on) DS(on) C _{iss} C _{oss}	Drain to So Zero Gate Gate to So aracteristi Gate to So Drain to So ic Charac Input Capa Output Capa	ics burce Breakdown Voltage Drain Cur urce Leakage Cur ics burce Threshold V burce On Resistar cteristics acitance pacitance	oltage	$I_{D} = 250 \mu A, V_{G}$ $V_{DS} = 24V$ $V_{GS} = 0V$ $V_{GS} = \pm 20V$ $I_{D} = 80A, V_{GS} = I_{D} =$	S = 0V T _J = 150 250μA 10V 5V 4.5V 10V	°C	30 - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0 - -	V μA nA V mΩ pF
B _{VDSS} DSS GSS Dn Cha V _{GS} (th) DS(on) DS(on) Dynam C _{iss} C _{oss} C _{rss}	Drain to So Zero Gate Gate to So aracteristi Gate to So Drain to So ic Charace Input Capa Output Capa Reverse Ti	ics purce Breakdown Voltage Drain Cur urce Leakage Cur ics purce Threshold V purce On Resistan cteristics acitance pacitance pacitance ransfer Capacitan	oltage	$\begin{split} I_{D} &= 250 \mu A, V_{G} \\ V_{DS} &= 24V \\ V_{GS} &= 0V \\ V_{GS} &= 0V \\ V_{DS} &= \pm 20V \\ \end{split}$	S = 0V $T_J = 150$ $250\mu A$ 10V 5V 4.5V 10V S = 0V,		30 - - 1.0 - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0 - -	V μA nA V mΩ pF pF
BVDSS DSS GSS Dn Cha VGS(th) DS(on) DS(on) DS(on) DS(on) DS(on) DS(on) DS(on)	Drain to So Zero Gate Gate to So aracteristi Gate to So Drain to So ic Charac Input Capa Output Cap Reverse Ti Gate Resis	ics purce Breakdown Voltage Drain Cur urce Leakage Cur ics purce Threshold V purce On Resistan cteristics acitance pacitance pacitance ransfer Capacitan stance	oltage	$\begin{split} & I_D = 250 \mu A, V_G \\ & V_{DS} = 24V \\ & V_{GS} = 0V \\ & V_{GS} = 10V \\ \hline & V_{DS} = 120V \\ \hline & V_{DS} = 120V \\ \hline & I_D = 80A, V_{GS} = 10 \\ & I_D = 80A, V_{GS} = 10 \\ \hline & I_D = 80A, V_{GS} = 10 \\ \hline & I_D = 80A, V_{GS} = 10 \\ \hline & V_{DS} = 15V, V_{GS} \\ \hline & V_{DS} = 15V, V_{GS} \\ \hline & V_{GS} = 0.5V, f = 100 \\ \hline & V_{GS} = 0.5V, f = 100 \\ \hline & V_{SS} = 0.5V, f $	S = 0V $T_J = 150$ $250\mu A$ 10V 5V 4.5V 10V S = 0V,	°C	30 - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0 - - - - -	V μA nA V mΩ pF pF pF
B _{VDSS} DSS GSS On Cha /GS(th) DS(on) DS(on) DS(on) DS(on) Ciss Coss Ciss Ciss Ciss Ciss Ciss Ciss	Drain to So Zero Gate Gate to So aracteristi Gate to So Drain to So ic Charac Input Capa Output Cap Reverse To Gate Resis Total Gate	ics purce Breakdown Voltage Drain Cur urce Leakage Cur ics purce Threshold V purce On Resistan cteristics acitance pacitance ransfer Capacitan stance Charge at 10V	oltage	$\begin{split} & I_{D} = 250 \mu A, V_{G} \\ & V_{DS} = 24V \\ & V_{GS} = 0V \\ & V_{GS} = 0V \\ \end{split} \\ & V_{DS} = V_{GS}, I_{D} = \\ & I_{D} = 80A, V_{GS} = \\ & V_{DS} = 15V, V_{GS} = \\ & V_{DS} = 15V, V_{GS} = \\ & V_{GS} = 0.5V, f = \\ & V_{GS} = 0 \text{ to } 10V \\ \end{split}$	S = 0V $T_J = 150$ $250\mu A$ 10V 5V 4.5V 10V S = 0V,	°C	30 - - - 1.0 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0 - - - - 265	V μA nA V mΩ pF pF Ω nC
3_{VDSS} DSS GSS Dn Cha $7_{GS(th)}$ $\overline{DS(on)}$	Drain to So Zero Gate Gate to So aracteristi Gate to So Drain to So Drain to So ic Charac Input Capa Output Cap Reverse Ti Gate Resis Total Gate	ics burce Breakdown Voltage Drain Cur urce Leakage Cur ics burce Threshold V burce On Resistan cteristics acitance pacitance ransfer Capacitan stance Charge at 10V Charge at 5V	oltage	$\begin{split} I_{D} &= 250 \mu \text{A}, V_{G} \\ V_{DS} &= 24 \text{V} \\ V_{GS} &= 0 \text{V} \\ V_{GS} &= 0 \text{V} \\ \end{split} \\ \end{split} \\ \begin{split} V_{DS} &= V_{GS}, I_{D} &= \\ I_{D} &= 80\text{A}, V_{GS} &= \\ \end{split} \\ \end{split} \\ \cr V_{DS} &= 15\text{V}, V_{GS} &= \\ T_{J} &= 175^{\circ}\text{C} \\ \end{split} \\ \cr V_{DS} &= 15\text{V}, V_{GS} &= \\ \hline V_{GS} &= 0.5\text{V}, f &= \\ \hline V_{GS} &= 0 \text{ to } 10\text{V} \\ \hline V_{GS} &= 0 \text{ to } 5\text{V} \\ \end{split}$	$_{S} = 0V$ $T_{J} = 150$ $250\mu A$ 10V 5V 4.5V 10V S = 0V, 1MHz		30 - - - 1.0 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0 - - - - 265 130	V μA nA V mΩ pF pF pF Ω nC nC
3_{VDSS} DSS GSS Dn Cha $\sqrt{GS(th)}$ $\overline{DS(on)}$	Drain to Sc Zero Gate Gate to So aracteristi Gate to So Drain to Sc Drain to Sc ic Charac Input Capa Output Cap Reverse To Gate Resis Total Gate Total Gate Threshold	ics burce Breakdown Voltage Drain Cur urce Leakage Cur ics burce Threshold V burce On Resistan cteristics acitance pacitance ransfer Capacitan stance Charge at 10V Charge at 5V Gate Charge	rrent oltage nce	$\begin{split} & I_{D} = 250 \mu A, V_{G} \\ & V_{DS} = 24V \\ & V_{GS} = 0V \\ & V_{GS} = 0V \\ \end{split} \\ & V_{DS} = V_{GS}, I_{D} = \\ & I_{D} = 80A, V_{GS} = \\ & V_{DS} = 15V, V_{GS} = \\ & V_{DS} = 15V, V_{GS} = \\ & V_{GS} = 0.5V, f = \\ & V_{GS} = 0 \text{ to } 10V \\ \end{split}$	S = 0V $T_J = 150$ 250μA 10V 5V 4.5V 10V S = 0V, 1MHz $V_{DD} = 19$ $I_D = 80A$		30 - - - 1.0 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0 - - - - 265	V μA nA V mΩ pF pF pF Ω nC nC
3_{VDSS} DSS GSS $On Cha V_{GS(th)}\overline{OS(on)}OS(on)$	Drain to So Zero Gate Gate to So aracterist i Gate to So Drain to So ic Charac Input Capa Output Cap Reverse Tr Gate Resis Total Gate Total Gate Threshold Gate to So	ics purce Breakdown Voltage Drain Cur urce Leakage Cur ics urce Threshold V purce On Resistan cteristics acitance pacitance ransfer Capacitan stance Charge at 10V Charge at 5V Gate Charge urce Gate Charge	ce	$\begin{split} I_{D} &= 250 \mu \text{A}, V_{G} \\ V_{DS} &= 24 \text{V} \\ V_{GS} &= 0 \text{V} \\ V_{GS} &= 0 \text{V} \\ \end{split} \\ \end{split} \\ \begin{split} V_{DS} &= V_{GS}, I_{D} &= \\ I_{D} &= 80\text{A}, V_{GS} &= \\ \end{split} \\ \end{split} \\ \cr V_{DS} &= 15\text{V}, V_{GS} &= \\ T_{J} &= 175^{\circ}\text{C} \\ \end{split} \\ \cr V_{DS} &= 15\text{V}, V_{GS} &= \\ \hline V_{GS} &= 0.5\text{V}, f &= \\ \hline V_{GS} &= 0 \text{ to } 10\text{V} \\ \hline V_{GS} &= 0 \text{ to } 5\text{V} \\ \end{split}$	$_{S} = 0V$ $T_{J} = 150$ $250\mu A$ 10V 5V 4.5V 10V S = 0V, 1MHz		30 - - - 1.0 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0 - - - 265 130 14.2 -	V μA nA V mΩ pF pF pF nC nC nC nC
B _{VDSS} DSS GSS Dn Cha V _{GS(th)}	Drain to So Zero Gate Gate to So aracteristi Gate to So Drain to So ic Charace Input Capa Output Capa Output Capa Reverse Tr Gate Resis Total Gate Total Gate Threshold Gate to So Gate Charace	ics burce Breakdown Voltage Drain Cur urce Leakage Cur ics burce Threshold V burce On Resistan cteristics acitance pacitance ransfer Capacitan stance Charge at 10V Charge at 5V Gate Charge	rrent oltage nce ce lateau	$\begin{split} I_{D} &= 250 \mu \text{A}, V_{G} \\ V_{DS} &= 24 \text{V} \\ V_{GS} &= 0 \text{V} \\ V_{GS} &= 0 \text{V} \\ \end{split} \\ \end{split} \\ \begin{split} V_{DS} &= V_{GS}, I_{D} &= \\ I_{D} &= 80\text{A}, V_{GS} &= \\ \end{split} \\ \end{split} \\ \cr V_{DS} &= 15\text{V}, V_{GS} &= \\ T_{J} &= 175^{\circ}\text{C} \\ \end{split} \\ \cr V_{DS} &= 15\text{V}, V_{GS} &= \\ \hline V_{GS} &= 0.5\text{V}, f &= \\ \hline V_{GS} &= 0 \text{ to } 10\text{V} \\ \hline V_{GS} &= 0 \text{ to } 5\text{V} \\ \end{split}$	S = 0V $T_J = 150$ 250μA 10V 5V 4.5V 10V S = 0V, 1MHz $V_{DD} = 19$ $I_D = 80A$		30 - - - 1.0 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 250 ±100 3.0 1.9 2.1 2.2 3.0 - - - - 265 130	V μA nA V mΩ pF pF pF Ω nC nC

FDB8832 N-Channel Logic Level PowerTrench[®] MOSFET

Symbol	Parameter	Test Conditions	Min	Тур	Мах	Units
Switchi	ng Characteristics					
t _(on)	Turn-On Time		-	-	155	ns
t _{d(on)}	Turn-On Delay Time		-	24	-	ns
t _r	Turn-On Rise Time	V _{DD} = 15V, I _D = 80A	-	73	-	ns
t _{d(off)}	Turn-Off Delay Time	$V_{GS} = 5V, R_{GS} = 1.5\Omega$	-	54	-	ns
t _f	Turn-Off Fall Time		-	38	-	ns
t _{off}	Turn-Off Time		-	-	149	ns
Drain-S	ource Diode Characteristics			0.8	1.25	V
V_{SD}	Source to Drain Diode Voltage	I _{SD} = 75A	-	0.0	-	V
		I _{SD} = 40A	-		1.0	•
t _{rr}	Reverse Recovery Time	I _F = 75A, di/dt = 100A/μs	-	59	77	ns

I_F = 75A, di/dt = 100A/μs

Q_{rr}

Notes: 1: Starting T_J = 25°C, L = 0.61mH, I_{AS} = 64A, V_{DD} = 30V, V_{GS} = 10V. 2: Pulse width = 100s.

Reverse Recovery Charge

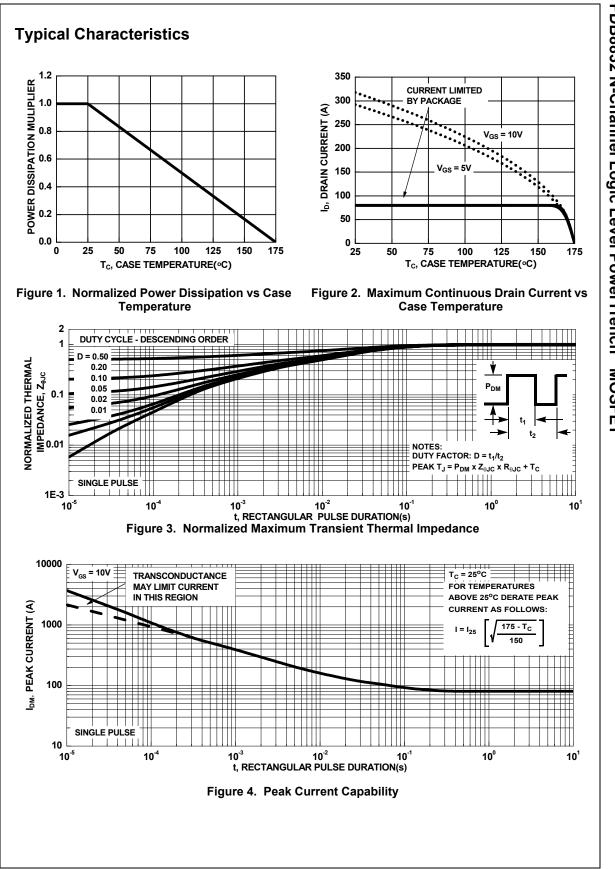
67

-

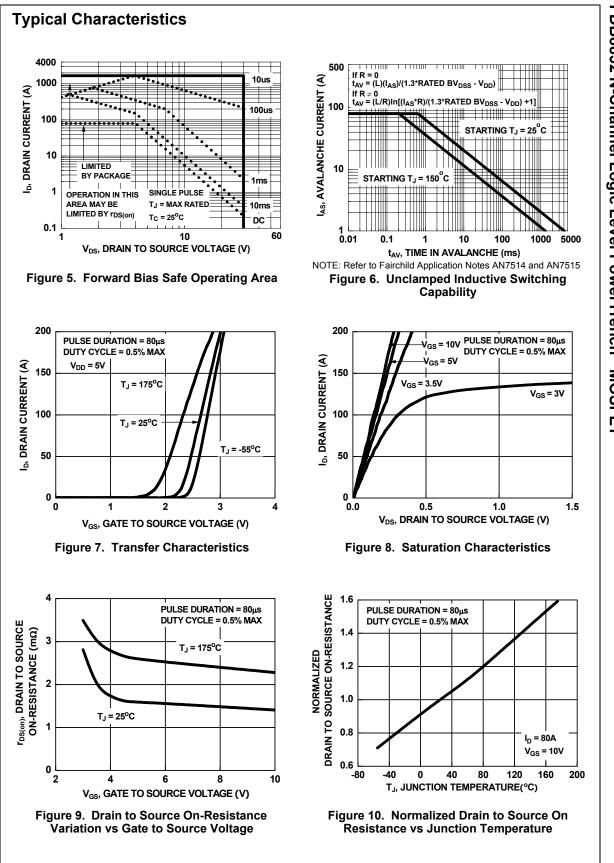
87

nC

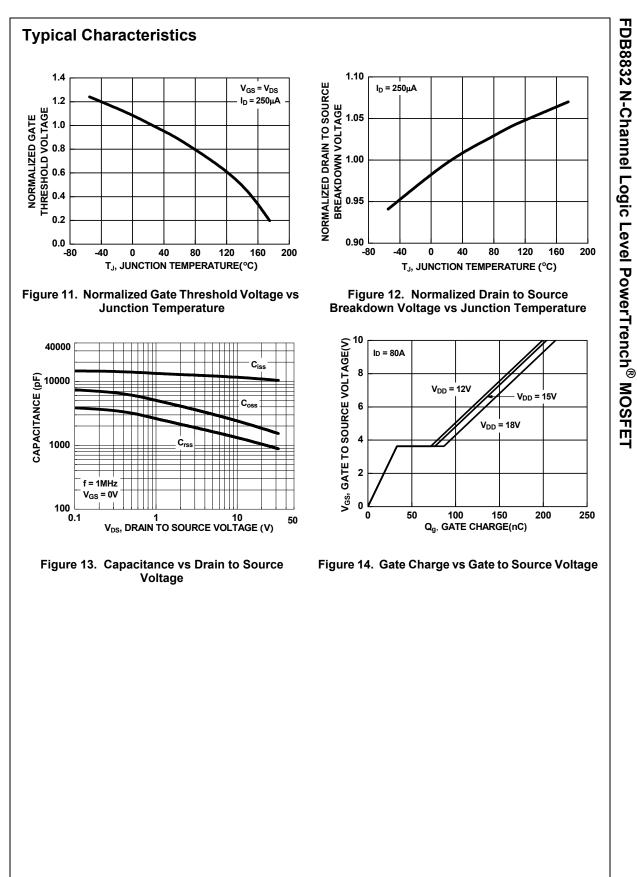
FDB8832 Rev. A1



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