

Excellent Integrated System Limited

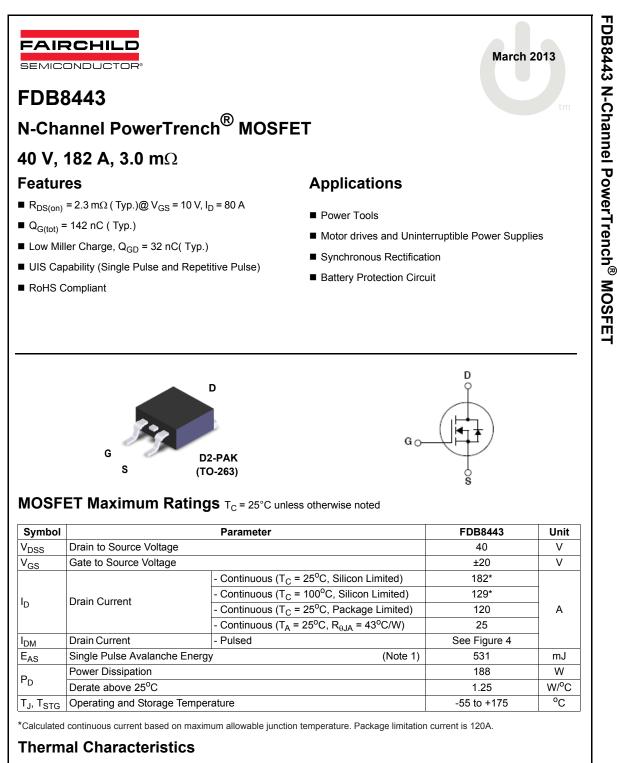
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Fairchild Semiconductor FDB8443

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





Symbol	Parameter		FDB8443	Unit
$R_{ ext{ heta}JC}$	Thermal Resistance Junction to Case, Max.		0.8	°C/W
$R_{\theta JA}$	Thermal Resistance Junction to Ambient, Max.	(Note 2)	62	°C/W
$R_{\theta JA}$	Thermal Resistance Junction to Ambient TO-263, 1in ² copper	pad area, Max.	43	°C/W

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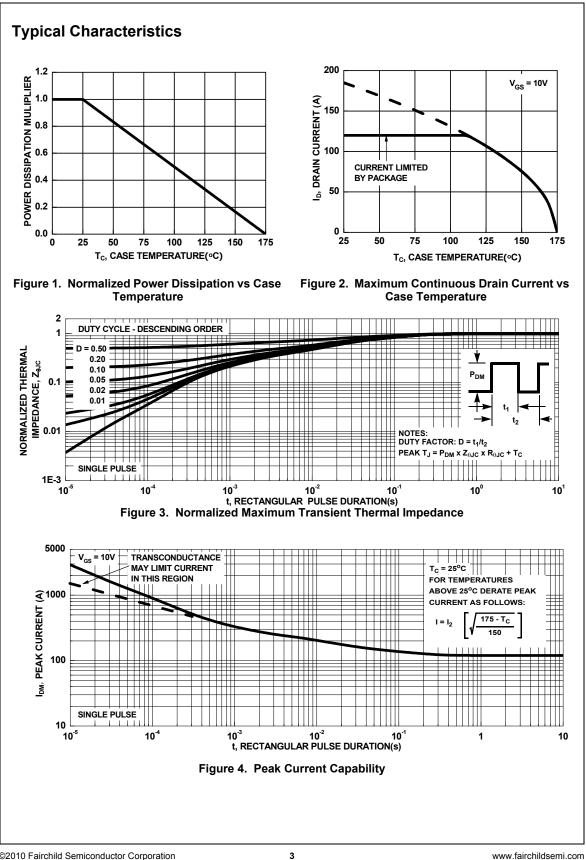


FDB	-		Packa	age Reel Size Tap		pe Width		Quant	ity	
			TO-26	3AB 330mm 2			24mm		800 units	
lectri	cal Cha	racteristic	S T _C = 25°	C unless	otherwise r	noted				
Symbol		Parameter			Test Con	ditions	Min	Тур	Мах	Unit
ff Cha	racterist	cs								
VDSS	Drain to So	ource Breakdown	Voltage	I _D = 25	0μA, V _{GS} =	0V	40	-	-	V
				$V_{\rm DS} = 32V$,		-	-	1		
DSS	Zero Gate	Voltage Drain Cu	rrent	V _{GS} =		T _C = 150 ^o C	-	-	250	μA
GSS	Gate to Sc	Gate to Source Leakage Current		V _{GS} = :		Ŭ	-	-	±100	nA
_	racteristi						1	1	1	1
GS(th)	Gate to So	ource Threshold \	/oltage		√ _{DS} , I _D = 28		2	2.8	4	V
	Duri di A				A, V _{GS} = 10		-	2.3	3.0	-
DS(on)	Drain to Source On Resistance		$I_D = 80A, V_{GS} = 10V, T_J = 175^{\circ}C$			-	4.2	5.5	mΩ	
-	c Charac									
Piss		Input Capacitance		V _{DS} = 25V, V _{GS} = 0V,		-	9310	-	pF	
Poss	Output Capacitance Reverse Transfer Capacitance		_f = 1MHz		-	800	-	pF		
rss						-	510	-	pF	
^k G	Gate Resi				0.5V, f = 1M	IHZ	-	0.9	-	Ω
Q _{g(TOT)}		Charge at 10V) to 10V		-	142	185	nC
Q _{g(TH)}		Gate Charge		V _{GS} = () to 2V	V _{DD} = 20V	-	17.5	23	nC
2 _{gs}		ource Gate Charg		_		I _D = 35A	-	36	-	nC
) _{gs2}		ge Threshold to I		_		I _g = 1mA	-	18.8	-	nC
Q _{gd}		ain "Miller" Charç					-	32	-	nC
	Turn-On T	cteristics (V _G	_S = 10V)				_	-	58	ns
on I(on)		Delay Time		-			_	18.4	-	ns
i(on)	Rise Time			V _{DD} = 20V, I _D = 35A		-	17.9	-	ns	
		Delay Time		— V _{GS} = 10V, R _{GS} = 2Ω —		0V, R _{GS} = 2Ω		55	-	ns
1(off)	Fall Time	- ,				-	13.5	-	ns	
	Turn-Off 1	īme		-			-	-	109	ns
d(off)		ada Ok ()	ristics				<u> </u>	<u> </u>	<u> </u>	
off	ource Die	ode Characte		1 - 2	5A		-	0.8	1.25	V
rain-So			200	I _{SD} = 3			-	0.8	1.0	v
off		Drain Diode Volt	age	I _{SD} = 3	5A			0.0	1.0	
≝ rain-S	Source to		age	I _{SD} = 1		= 100A/µs	-	42	55	ns

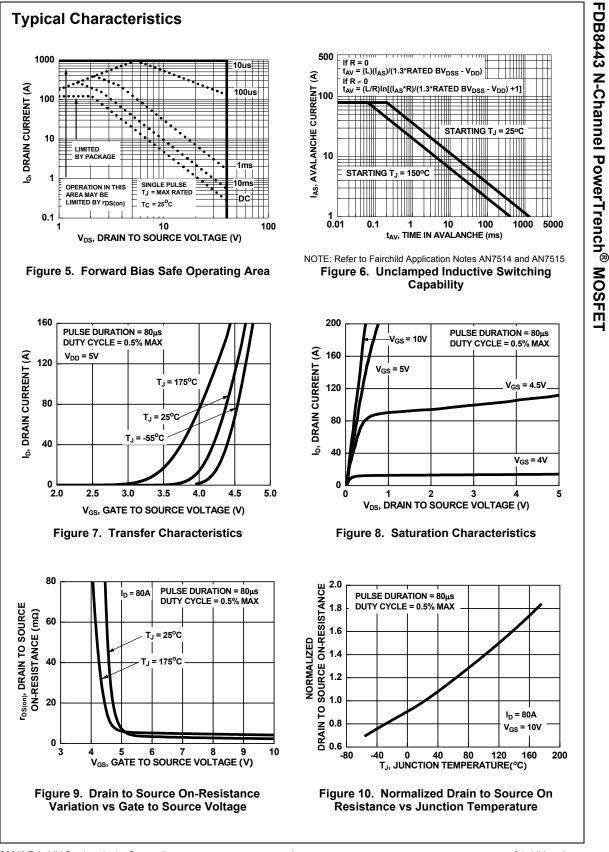
FDB8443 N-Channel PowerTrench[®] MOSFET



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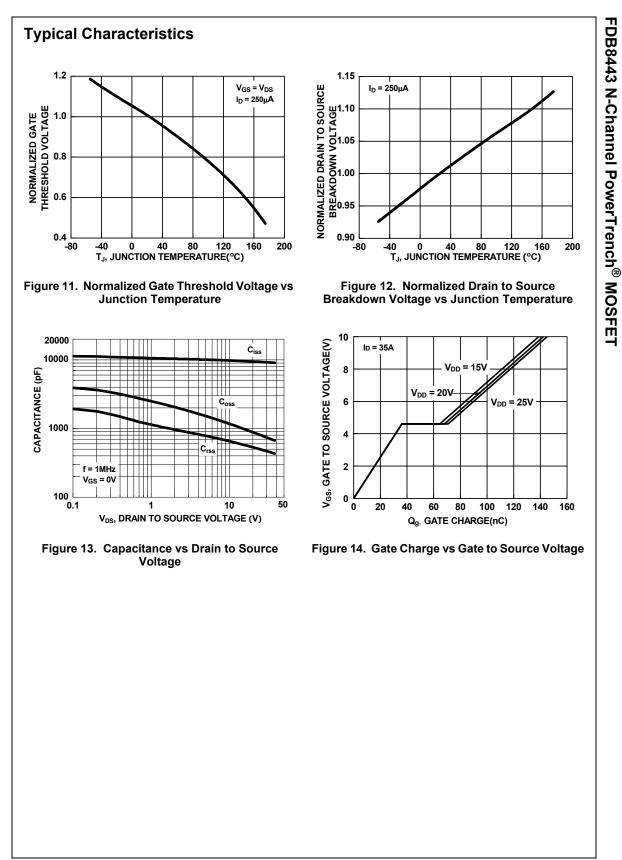






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Distributor of Fairchild Semiconductor: Excellent Integrated System Limited Datasheet of FDB8443 - MOSFET N-CH 40V 120A TO-263AB Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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