

Symbol	Parameter		Ratings	Units
V _{DSS}	Drain-to-Source Voltage		40	V
V _{GS}	Gate-to-Source Voltage		±20	V
I _D	Drain Current - Continuous (V _{GS} =10) (Note 1)	T _C = 25°C	240	
	Pulsed Drain Current	T _C = 25°C	See Figure 4	— A
E _{AS}	Single Pulse Avalanche Energy	(Note 2)	316	mJ
P _D	Power Dissipation		300	W
	Derate Above 25°C		2.0	W/ºC
T _J , T _{STG}	Operating and Storage Temperature		-55 to + 175	°C
$R_{\theta JC}$	Thermal Resistance, Junction to Case		0.5	°C/W
$R_{\theta JA}$	Maximum Thermal Resistance, Junction to Ambient	(Note 3)	43	°C/W

Notes:

Current is limited by bondwire configuration.
Starting T_J = 25°C, L = 0.1mH, I_{AS} = 79.5A, V_{DD} = 40V during inductor charging and V_{DD} = 0V during time in avalanche.
R_{0JA} is the sum of the junction-to-case and case-to-ambient thermal resistance, where the case thermal reference is defined as the solder mounting surface of the drain pins. R_{0JC} is guaranteed by design, while R_{0JA} is determined by the board design. The maximum rating presented here is based on mounting on a 1 in² pad of 2oz copper.

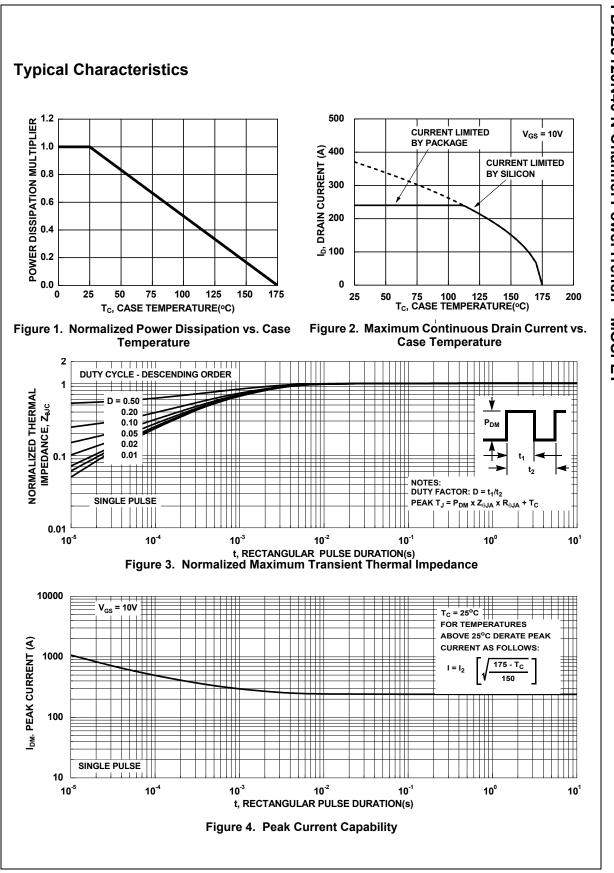
Package Marking and Ordering Information

Device Marking	Device	Package			
FDBL0120N40	FDBL0120N40	MO-299A	-	-	-

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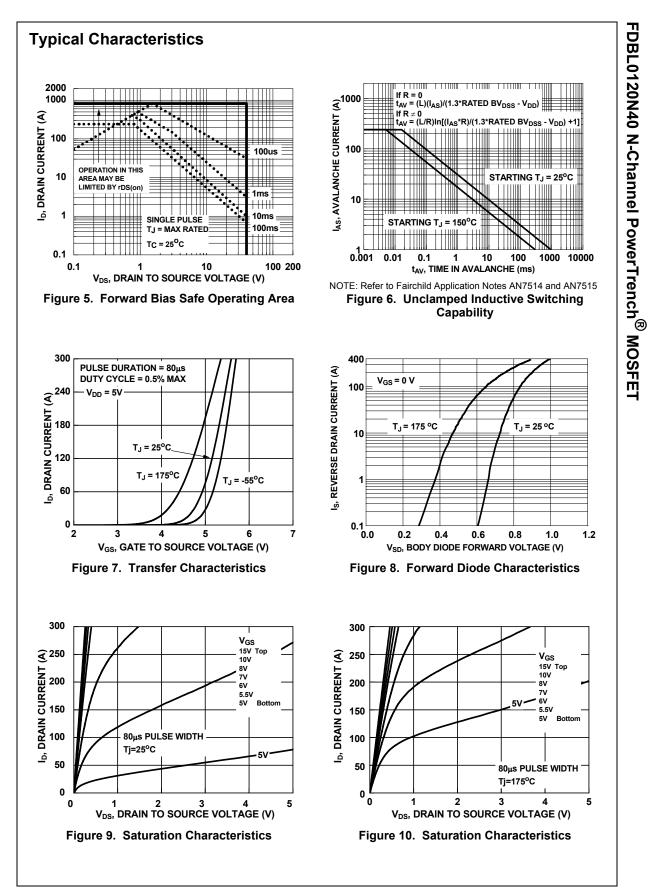
Symbol	Parameter	Test	Conditions	Min.	Тур.	Max.	Units
•	racteristics				,	I	
B _{VDSS}	Drain-to-Source Breakdown Voltage	I _D = 250μA, \	V _{GS} = 0V	40	-	-	V
		V _{DS} =40V,		-	-	1	μA
DSS	Drain-to-Source Leakage Current	$V_{GS} = 0V$	T _J = 175 ^o C (Note 4)	-	-	1	mA
GSS	Gate-to-Source Leakage Current	V _{GS} = ±20V		-	-	±100	nA
On Cha	racteristics						
V _{GS(th)}	Gate to Source Threshold Voltage	V_{GS} = V_{DS} , I	_D = 250μA	2.0	3.2	4.0	V
	Drain to Source On Resistance	I _D = 80A,	T _J = 25 ^o C	-	0.90	1.20	mΩ
R _{DS(on)}		V _{GS} = 10V	$T_{\rm J}$ = 175°C (Note 4)	-	1.64	1.86	mΩ
-	c Characteristics				7735	_	pF
C _{iss}	Output Capacitance	− V _{DS} = 25V, V _{GS} = 0V, f = 1MHz		-	2160	-	pr pF
C _{oss} C _{rss}	Reverse Transfer Capacitance			-	129	-	pr
R _g	Gate Resistance	f = 1MHz	f - 1MH7		2.5	_	Ω
Q _{g(ToT)}	Total Gate Charge at 10V	$V_{GS} = 0$ to 10		_	90	107	nC
$Q_{g(th)}$	Threshold Gate Charge	$V_{GS} = 0$ to 2			13.5	15.5	nC
Q _{gs}	Gate-to-Source Gate Charge	03	10 00/1	-	43	-	nC
Q _{gd}	Gate-to-Drain "Miller" Charge		-	-	10	-	nC
	ng Characteristics				-	102	ns
on	Turn-On Delay				33	-	ns
d(on) r	Rise Time	V = 20V I	- = 80A	-	40	-	ns
d(off)	Turn-Off Delay	$V_{GS} = 10V, I$	$V_{DD} = 20V, I_D = 80A,$ $V_{GS} = 10V, R_{GEN} = 6\Omega$		47	-	ns
f	Fall Time				23	-	ns
off	Turn-Off Time	-		-	-	91	ns
-	ource Diode Characteristics		I		1	L	
√ _{SD}	Source-to-Drain Diode Voltage	-	I _{SD} =80A, V _{GS} = 0V		-	1.25	V
• SD		I _{SD} = 40A, V	' _{GS} = 0V	-	-	1.2	V
rr	Reverse-Recovery Time		_{SD} /dt = 100A/μs,	-	91	107	ns
ე _{rr}	Reverse-Recovery Charge	V _{DD} =32V		-	128	167	nC

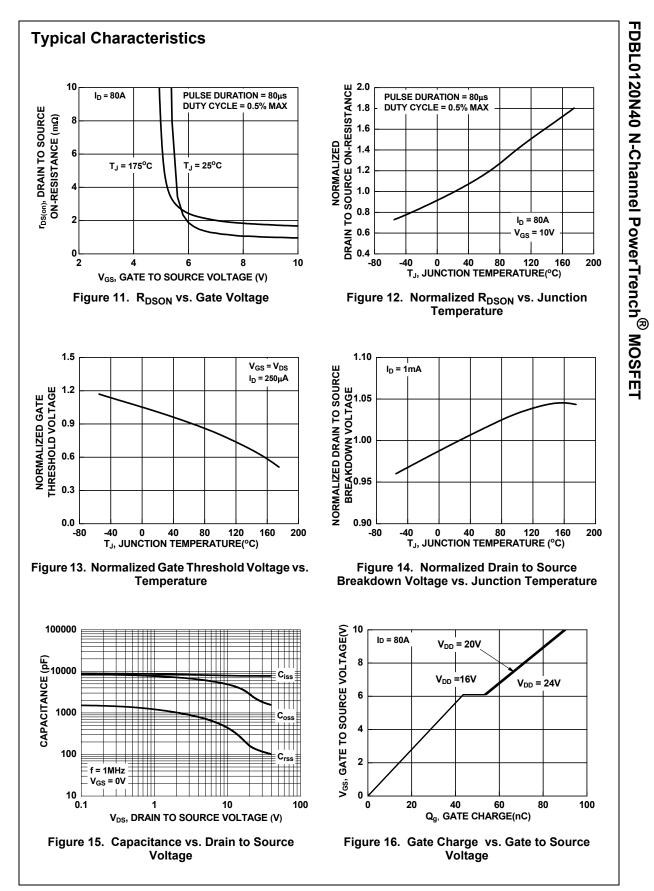
4: The maximum value is specified by design at T_J = 175°C. Product is not tested to this condition in production.



FDBL0120N40 N-Channel PowerTrench[®] MOSFET

FDBL0120N40 Rev.C3





FDBL0120N40 Rev.C3



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Definition of Terms

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Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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