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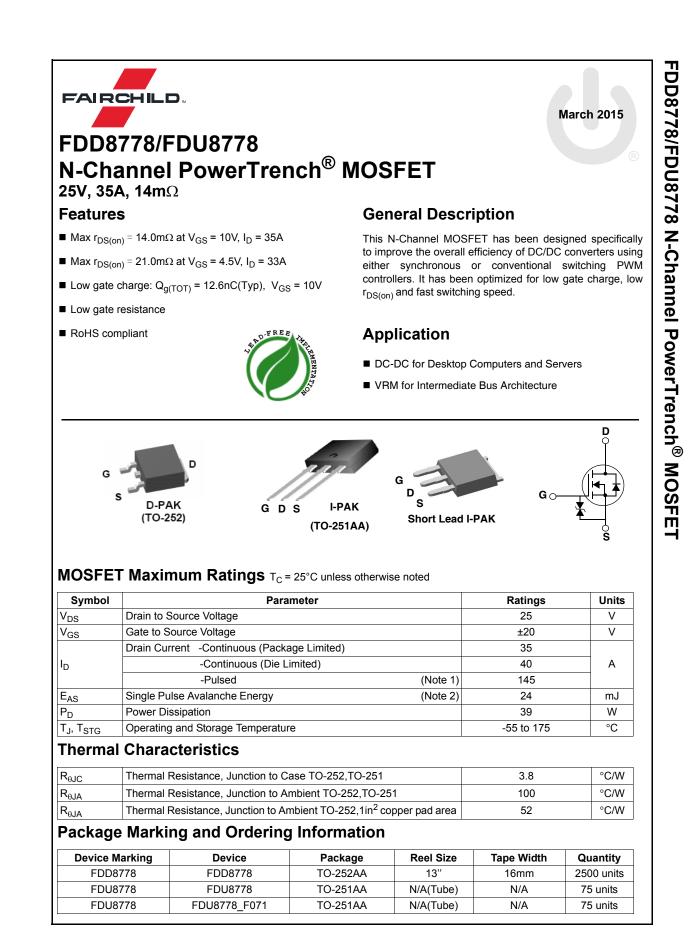


ON Semiconductor®

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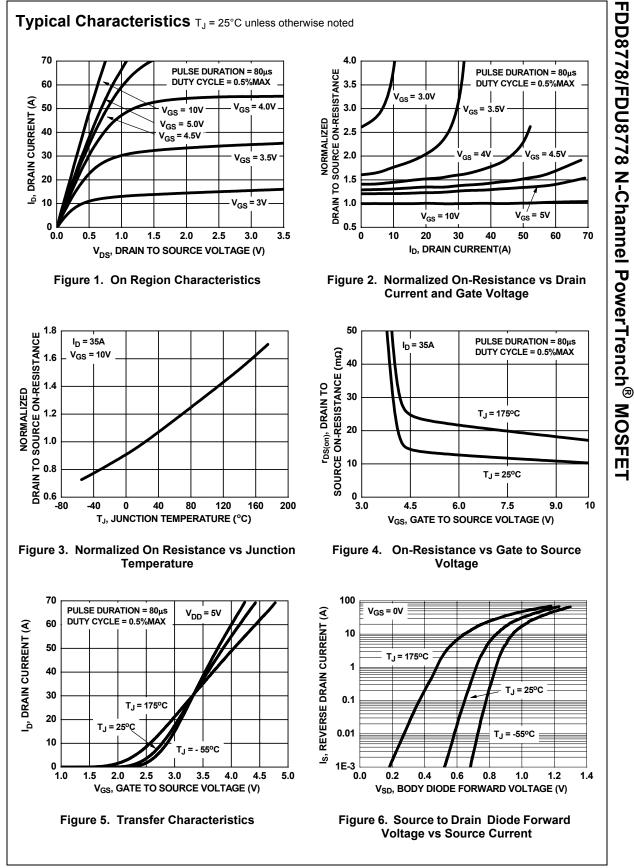
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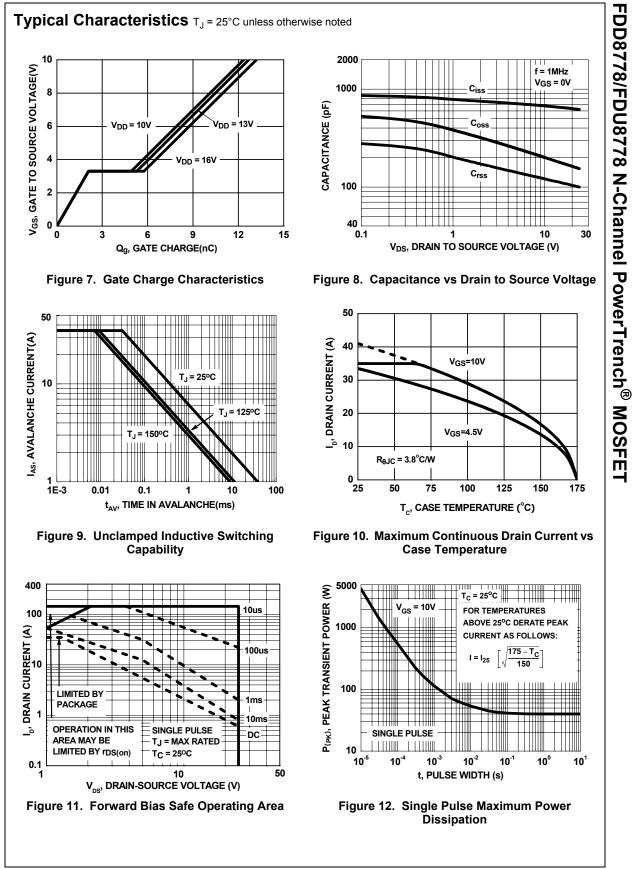
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Symbol	Parameter	Test Conditions	Min	Тур	Мах	Units
Off Chara	cteristics					
BV _{DSS}	Drain to Source Breakdown Voltage	I _D = 250μA, V _{GS} = 0V	25			V
$\frac{\Delta BV_{DSS}}{\Delta T_J}$	-	$I_D = 250 \mu A$, referenced to $25^{\circ}C$		17.2		mV/°C
I _{DSS}		$V_{DS} = 20V,$ $V_{GS} = 0V$ $T_J = 150^{\circ}C$			1 250	μA
I _{GSS}		V _{GS} = ±20V			±10	μA
On Chara	cteristics					
V _{GS(th)}	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}, I_{D} = 250 \mu A$	1.2	1.5	2.5	V
$\frac{\Delta V_{GS(th)}}{\Delta T_{.l}}$	Gate to Source Threshold Voltage Temperature Coefficient	$I_D = 250\mu$ A, referenced to 25°C	1.2	-5.3	2.0	mV/°C
r _{DS(on)}	Drain to Source On Resistance	V _{GS} = 10V, I _D = 35A		11.6	14.0	_ _ mΩ
		V _{GS} = 4.5V, I _D = 33A		15.7	21.0	
		V_{GS} = 10V, I _D = 35A T _J = 175°C		18.2	23.8	
Dynamic	Characteristics					
C _{iss}	Input Capacitance	- V _{DS} = 13V, V _{GS} = 0V, - f = 1MHz		635	845	pF
C _{oss}	Output Capacitance			160	215	pF
C _{rss}	Reverse Transfer Capacitance			108	162	pF
R _g	Gate Resistance	f = 1MHz		1.3		Ω
Switching	g Characteristics					
t _{d(on)}	Turn-On Delay Time	V_{DD} = 13V, I _D = 35A V_{GS} = 10V, R _{GS} = 27 Ω		6	12	ns
t _r	Rise Time			22	35	ns
t _{d(off)}	Turn-Off Delay Time			43	69	ns
t _f	Fall Time			32	51	ns
Q _{g(TOT)}	Total Gate Charge at 10V	$V_{GS} = 0V \text{ to } 10V$		12.6	18	nC
Q _{g(5)}	Total Gate Charge at 5V	$V_{GS} = 0V \text{ to } 5V$ $V_{DD} = 13V$ $I_D = 35A$		6.7	9.4	nC
Q _{gs}	Gate to Source Gate Charge	$I_{g} = 1.0 \text{mA}$		2.1		nC
Q _{gd}	Gate to Drain "Miller"Charge	5		3.2		nC
Drain-Sou	urce Diode Characteristics					
V _{SD}	Source to Drain Diode Forward Voltage	V _{GS} = 0V, I _S = 35A		1.03	1.25	V
		V _{GS} = 0V, I _S = 15A		0.89	1.2	
t _{rr}	Reverse Recovery Time	$I_F = 35A$, di/dt = 100A/µs		25	38	ns
Q _{rr} Notes:	Reverse Recovery Charge	I _F = 35A, di/dt = 100A/μs		17	26	nC

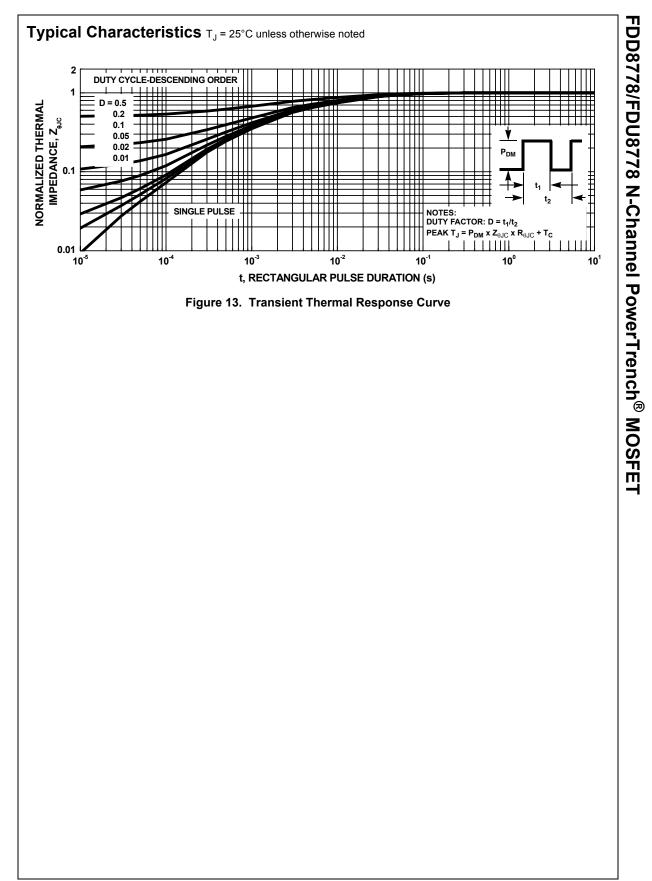
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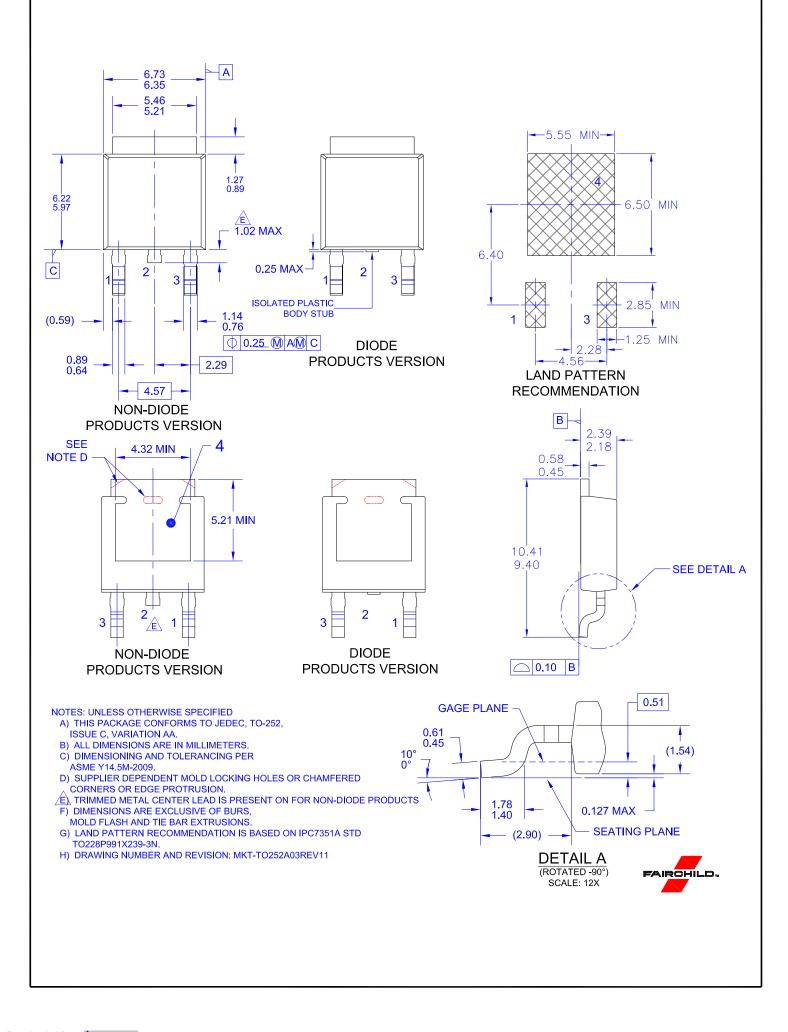


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