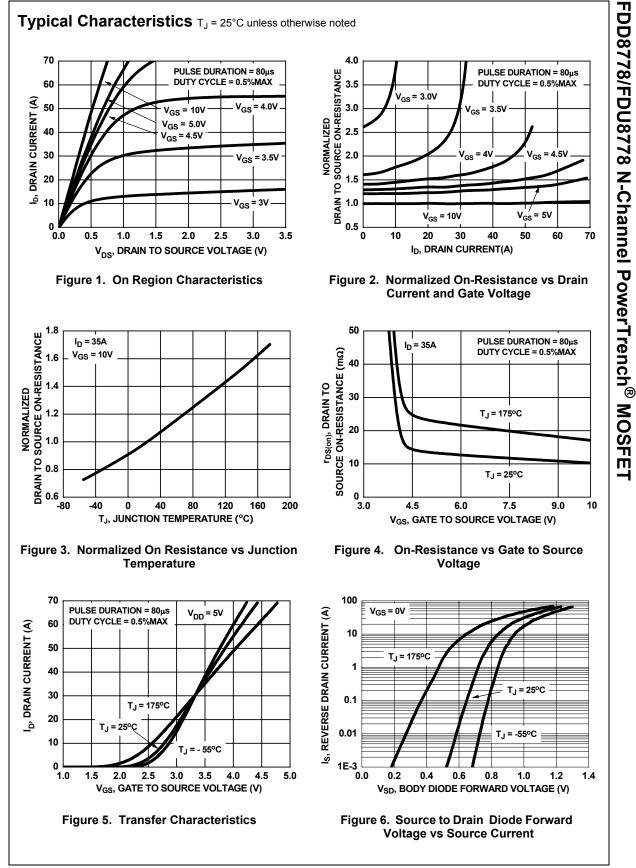
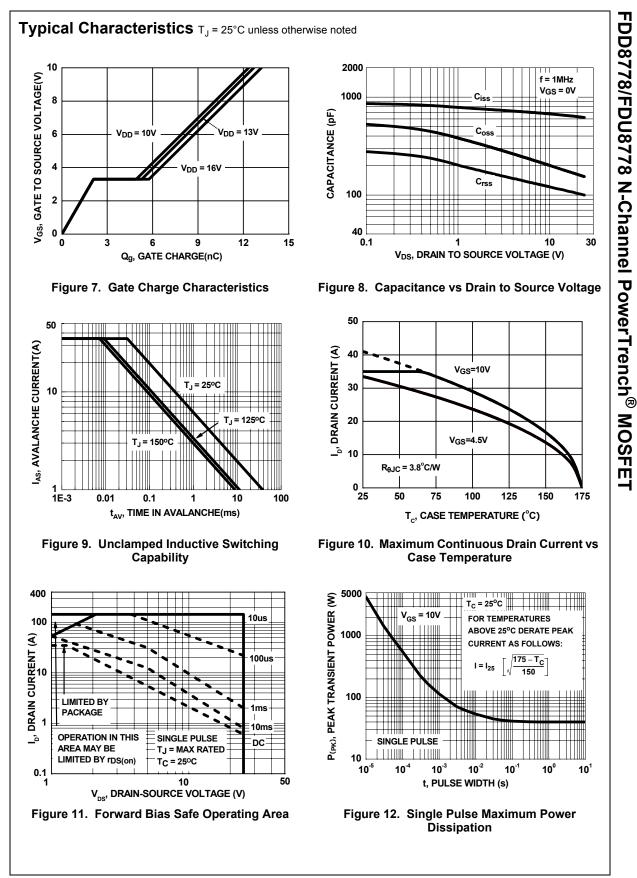


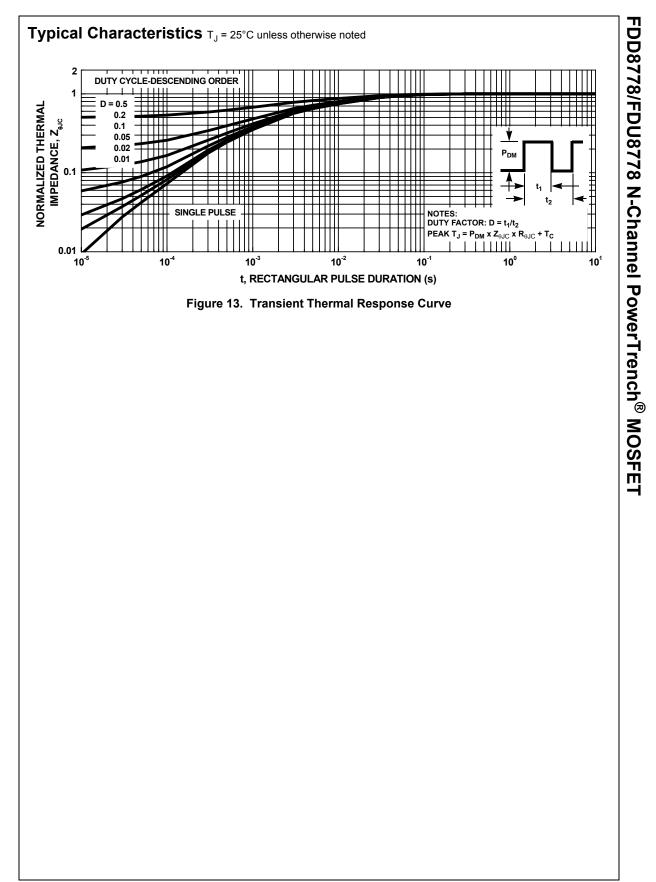
Symbol	Parameter	Test Conditions	Min	Тур	Max	Units	
Off Chara	cteristics						
BV <sub>DSS</sub>	Drain to Source Breakdown Voltage	I <sub>D</sub> = 250μA, V <sub>GS</sub> = 0V	25			V	
$\frac{\Delta BV_{DSS}}{\Delta T_{I}}$	Breakdown Voltage Temperature Coefficient	$I_D = 250 \mu A$ , referenced t 25°C	to	17.2		mV/°C	
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> = 20V, V <sub>GS</sub> = 0V T <sub>J</sub> = 1	50°C		1 250	μΑ	
I <sub>GSS</sub>	Gate to Source Leakage Current	V <sub>GS</sub> = ±20V			±10	μA	
	cteristics				1		
V <sub>GS(th)</sub>	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}, I_{D} = 250 \mu A$	1.2	1.5	2.5	V	
$\frac{\Delta V_{GS(th)}}{\Delta T_{.1}}$	Gate to Source Threshold Voltage Temperature Coefficient	$I_D = 250 \mu A$ , referenced 25°C		-5.3	2.0	mV/°C	
r <sub>DS(on)</sub>	Drain to Source On Resistance	V <sub>GS</sub> = 10V, I <sub>D</sub> = 35A		11.6	14.0		
		V <sub>GS</sub> = 4.5V, I <sub>D</sub> = 33A		15.7	21.0	mΩ	
		V <sub>GS</sub> = 10V, I <sub>D</sub> = 35A T <sub>J</sub> = 175°C		18.2	23.8	- 11152	
Dynamic	Characteristics						
C <sub>iss</sub>	Input Capacitance			635	845	pF	
C <sub>oss</sub>	Output Capacitance	V <sub>DS</sub> = 13V, V <sub>GS</sub> = 0V, f = 1MHz		160	215	pF	
C <sub>rss</sub>	Reverse Transfer Capacitance			108	162	pF	
Rg	Gate Resistance	f = 1MHz		1.3		Ω	
Switching	g Characteristics						
t <sub>d(on)</sub>	Turn-On Delay Time			6	12	ns	
t <sub>r</sub>	Rise Time	$V_{DD} = 13V, I_D = 35A$		22	35	ns	
t <sub>d(off)</sub>	Turn-Off Delay Time	V <sub>GS</sub> = 10V, R <sub>GS</sub> = 27Ω		43	69	ns	
t <sub>f</sub>	Fall Time			32	51	ns	
Q <sub>g(TOT)</sub>	Total Gate Charge at 10V	$V_{GS}$ = 0V to 10V	1011	12.6	18	nC	
Q <sub>g(5)</sub>	Total Gate Charge at 5V	$V_{GS} = 0V \text{ to } 5V$ $V_{DD} =$		6.7	9.4	nC	
Q <sub>gs</sub>	Gate to Source Gate Charge	$I_D = 35A$ $I_a = 1.0mA$		2.1		nC	
Q <sub>gd</sub>	Gate to Drain "Miller"Charge	. 'g '		3.2		nC	
Drain-Sou	urce Diode Characteristics		·				
V	Source to Drain Diode Forward Voltage	V <sub>GS</sub> = 0V, I <sub>S</sub> = 35A		1.03	1.25	v	
V <sub>SD</sub>	Bourse to Brain Blode Torward Voltage	V <sub>GS</sub> = 0V, I <sub>S</sub> = 15A		0.89	1.2	v	
t	Reverse Recovery Time	I <sub>F</sub> = 35A, di/dt = 100A/μs		25	38	ns	
t <sub>rr</sub>		I <sub>F</sub> = 35A, di/dt = 100A/μ					

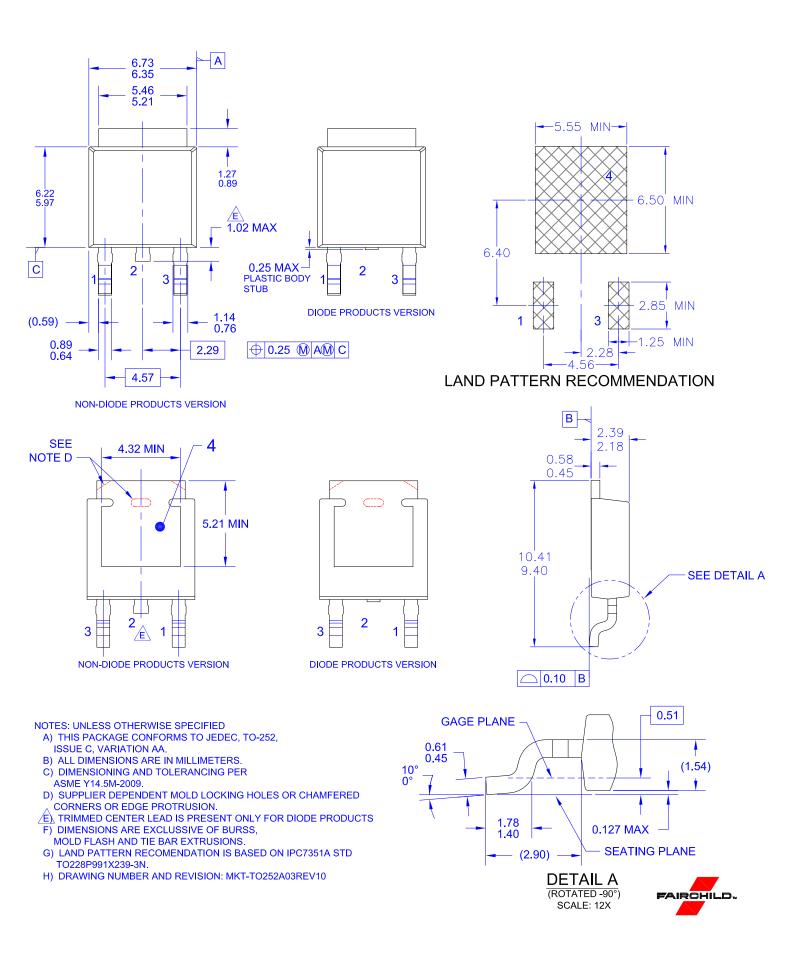


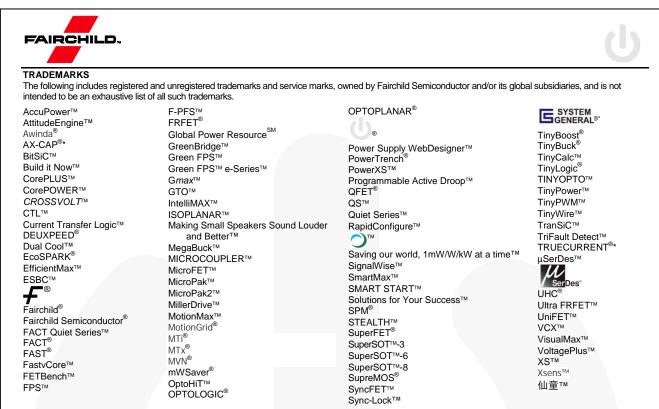
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