

Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
Off Cha	racteristics					
3V _{DSS}	Drain–Source Breakdown Voltage	$V_{GS} = 0 V$, $I_D = 250 \mu A$	20			V
<u>ΔBVdss</u> ΔTj	Breakdown Voltage Temperature Coefficient	I_D = 250 µA, Referenced to 25°C		21		mV/°C
DSS	Zero Gate Voltage Drain Current	$V_{DS} = 16 V$, $V_{GS} = 0 V$			1	μΑ
GSSF	Gate-Body Leakage, Forward	$V_{GS} = 12 V$, $V_{DS} = 0 V$			10	μΑ
GSSR	Gate-Body Leakage, Reverse	$V_{GS} = -12 V$, $V_{DS} = 0 V$			-10	μΑ
On Char	acteristics (Note 2)					
V _{GS(th)}	Gate Threshold Voltage	$V_{DS} = V_{GS}$, $I_D = 250 \ \mu A$	0.5	1	1.5	V
$\Delta V_{GS(th)} \Delta T_J$	Gate Threshold Voltage Temperature Coefficient	I_D = 250 µA, Referenced to 25°C		-3.5		mV/°C
R _{DS(on)}	Static Drain–Source On–Resistance	$ \begin{array}{l} V_{GS} = 4.5 \; V, \; I_D = 9.4 \; A \\ V_{GS} = 2.5 \; V, \; I_D = 8.3 \; A \\ V_{GS} = 4.5 \; V, \; I_D = 9.4 \; A, T_J = 125^\circ C \end{array} $		10 13 14	14 18 21	mΩ
I _{D(on)}	On-State Drain Current	$V_{GS} = 4.5V, V_{DS} = 5V$	19			Α
FS	Forward Transconductance	$V_{DS} = 5 V$, $I_{D} = 9.4 A$		47		S
Dynamie	c Characteristics					
Siss	Input Capacitance	$V_{DS} = 10 V$, $V_{GS} = 0 V$,		1821		pF
Soss	Output Capacitance	f = 1.0 MHz		440		pF
rss	Reverse Transfer Capacitance			208		pF
Switchir	ng Characteristics (Note 2)					
d(on)	Turn–On Delay Time	$V_{DD} = 10 V$, $I_D = 1 A$,		10	20	ns
	Turn–On Rise Time	$V_{GS} = 4.5 \text{ V}, R_{GEN} = 6 \Omega$	-	15	27	ns
d(off)	Turn–Off Delay Time			34	55	ns
f	Turn–Off Fall Time			16	29	ns
ک ^a	Total Gate Charge	V _{DS} = 10 V, I _D = 9.4 A,		16	23	nC
2 _{gs}	Gate-Source Charge	V _{GS} = 4.5 V		3		nC
⊋ _{gd}	Gate–Drain Charge			4		nC
Drain–S	ource Diode Characteristics	and Maximum Ratings				
s	Maximum Continuous Drain-Source				1.3	Α
V _{SD}	Drain–Source Diode Forward Voltage	$V_{GS} = 0 V$, $I_S = 1.3 A$ (Note 2)		0.7	1.2	V

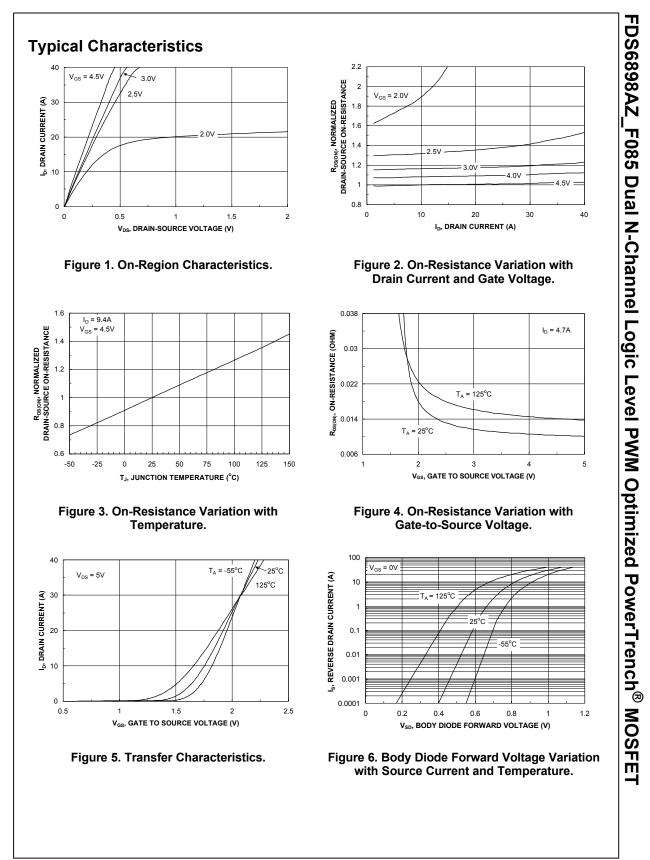
Scale 1 : 1 on letter size paper

2. Pulse Test: Pulse Width < 300µs, Duty Cycle < 2.0%

3. The diode connected between the gate and source serves only as protection against ESD. No gate overvoltage rating is implied

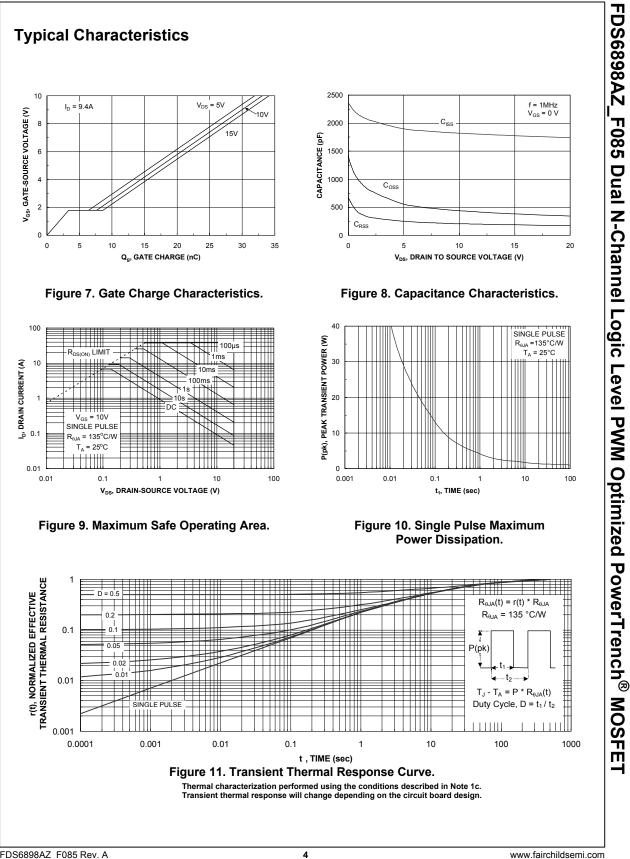
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