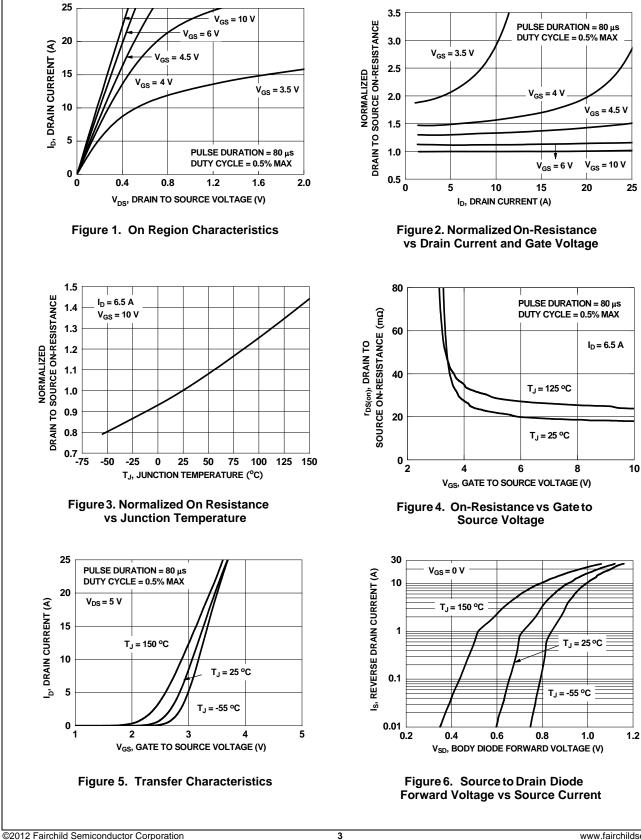


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Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
Off Chara	acteristics					
BV _{DSS}	Drain to Source Breakdown Voltage	I _D = 250 μA, V _{GS} = 0 V	30			V
∆BV _{DSS}	Breakdown Voltage Temperature	$I_D = 250 \ \mu$ A, referenced to 25 °C		15		mV/°C
ΔT_{J}	Coefficient			15		IIIV/ C
IDSS	Zero Gate Voltage Drain Current	$V_{DS} = 24 \text{ V}, V_{GS} = 0 \text{ V}$			1	μA
I _{GSS}	Gate to Source Leakage Current, Forward	$V_{GS} = 20 \text{ V}, \text{ V}_{DS} = 0 \text{ V}$			100	nA
On Chara	octeristics					
V _{GS(th)}	Gate to Source Threshold Voltage	$V_{GS} = V_{DS}, I_{D} = 250 \ \mu A$	1.2	1.8	3.0	V
$\Delta V_{GS(th)}$	Gate to Source Threshold Voltage				010	-
ΔT_{J}	Temperature Coefficient	$I_D = 250 \ \mu\text{A}$, referenced to 25 °C		-5		mV/°C
r _{DS(on)}	Static Drain to Source On Resistance	$V_{GS} = 10 \text{ V}, \ I_D = 6.5 \text{ A}$		19	23	
		$V_{GS} = 4.5 \text{ V}, \ I_D = 6.0 \text{ A}$		25	30	mΩ
		$V_{GS} = 10 \text{ V}, \ \text{I}_{D} = 6.5 \text{ A}, \text{T}_{J} = 125 ^{\circ}\text{C}$		25	30	
9 _{FS}	Forward Transconductance	$V_{DD} = 5 V, I_D = 6.5 A$		26		S
Dynamic	Characteristics					
C _{iss}	Input Capacitance			339	450	pF
C _{iss} C _{oss}	Output Capacitance	$V_{DS} = 15 \text{ V}, \text{ V}_{GS} = 0 \text{ V},$		132	175	pF pF
C _{rss}	Reverse Transfer Capacitance	_f = 1 MHz		18	28	pF
R _g	Gate Resistance			1.1	20	Ω
Switching	g Characteristics					
t _{d(on)}	Turn-On Delay Time			5	10	ns
t _r	Rise Time	V _{DD} = 15 V, I _D = 6.5 A,		1	10	ns
t _{d(off)}	Turn-Off Delay Time	V_{GS} = 10 V, R_{GEN} = 6 Ω		11	20	ns
t _f	Fall Time			1	10	ns
0	Total Gate Charge	$V_{GS} = 0 V \text{ to } 10 V$ $V_{GS} = 0 V \text{ to } 4.5 V$ $V_{DD} = 15 V$		5.4	7.5	nC
Q _{g(TOT)}	Total Gate Charge			2.7	3.7	nC
Q _{gs}	Total Gate Charge	I _D = 6.5 A		1.0		nC
Q _{gd}	Gate to Drain "Miller" Charge			0.9		nC
Drain-Sou	urce Diode Characteristics					
V _{SD}	Source to Drain Diode Forward Voltage	$V_{GS} = 0 V, I_S = 6.5 A$ (Note 2)		0.86	1.2	V
t _{rr}	Reverse Recovery Time			16	28	ns
Q _{rr}	Reverse Recovery Charge	I _F = 6.5 A, di/dt = 100 A/μs		4	10	nC
NOTES:						
	m of the junction-to-case and case-to-ambient thermal resised by design while $R_{\theta CA}$ is determined by the user's board d		as the solde	r mounting s	urface of the	e drain pins
000 0						
	a. 65 °C/W when mounted on a 1 in ² pad of 2 oz coppe	r. b. 180 °C/W who minimum pac				
	(m.)					
		00000				
	00000					
	ulse Width < 300 μ s, Duty cycle < 2.0 %.					
5. As an N-Ch de	avice, the negative Vgs rating is for low duty cycle pulse occu	arrence only. No continuous rating is implied.				

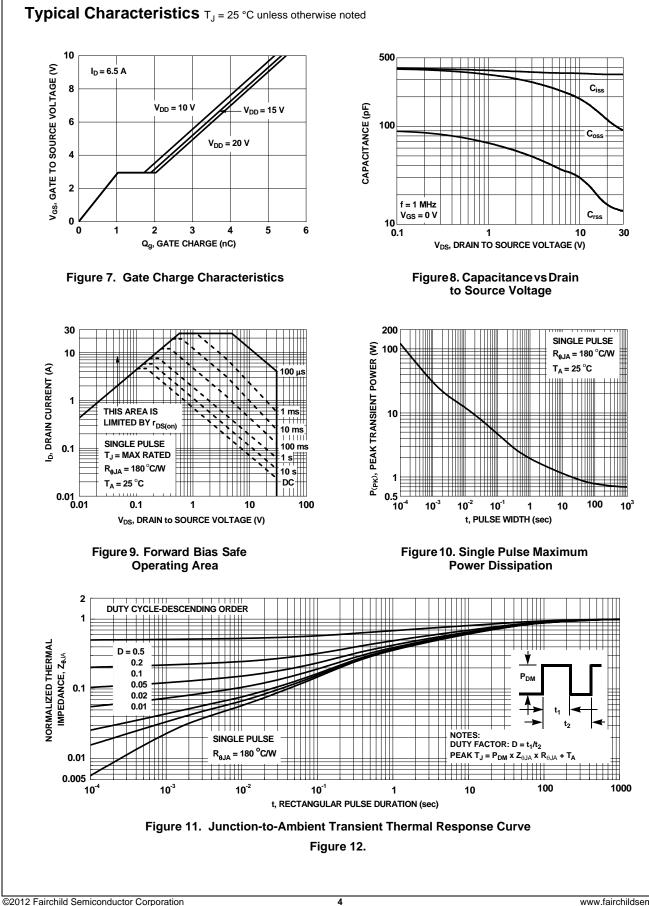
Electrical Characteristics T_J = 25 °C unless otherwise noted

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Typical Characteristics T_J = 25 °C unless otherwise noted





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FDMA8884 N-Channel Power Trench[®] MOSFET

NO DRAIN OR GATE TRACES ALLOWED IN THIS AREA

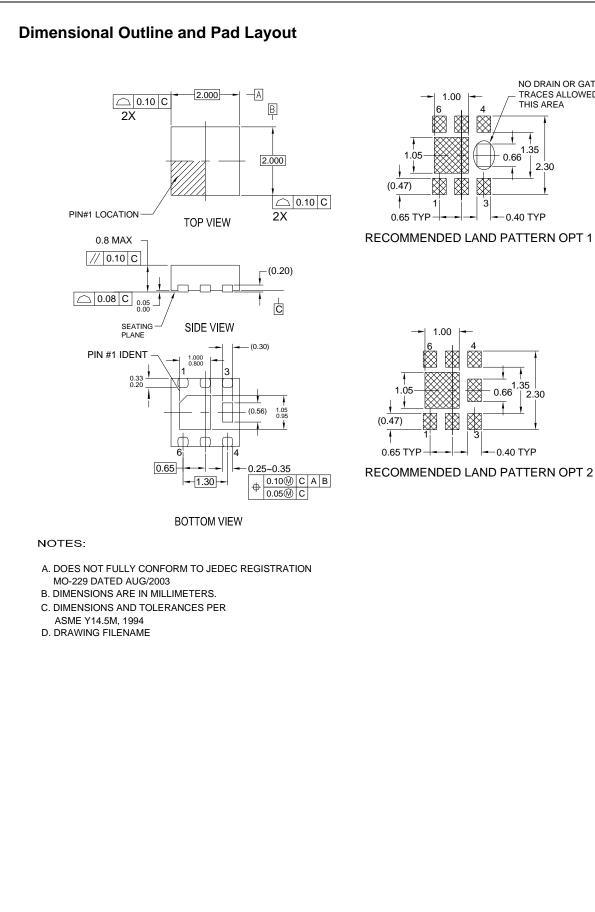
0.66^{1.35}

-0.40 TYP

0.66 2.30

0.40 TYP

2.30



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CROSSVOLT™	GTO™	TM T	
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DEUXPEED®	Marking Small Speakers Sound Loude	SignalWise™	TinyPWM™ Tias M/ins ™
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	MicroPak™	STEALTH™	userbes
+	MicroPak2 [™]	SuperFET [®]	\mathcal{N}
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FACT	mWSaver™	SupreMOS [®]	UniFET™
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