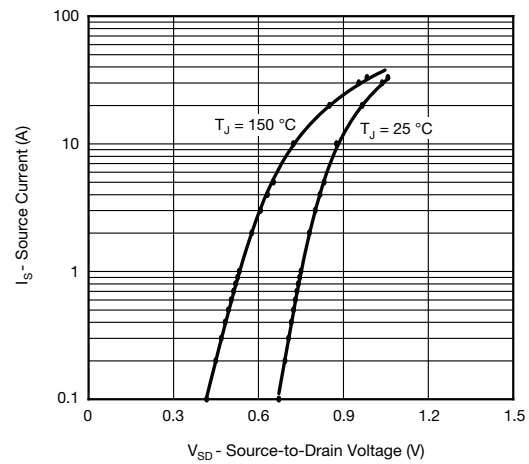
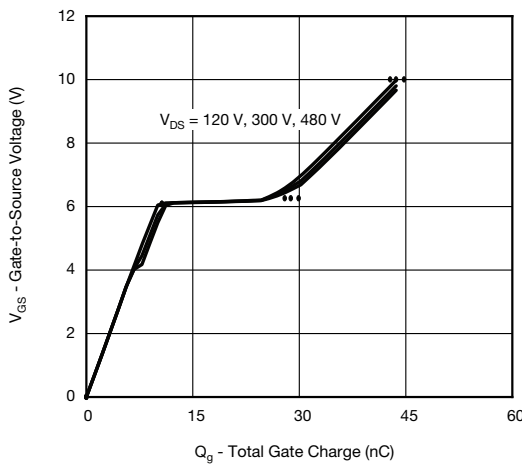
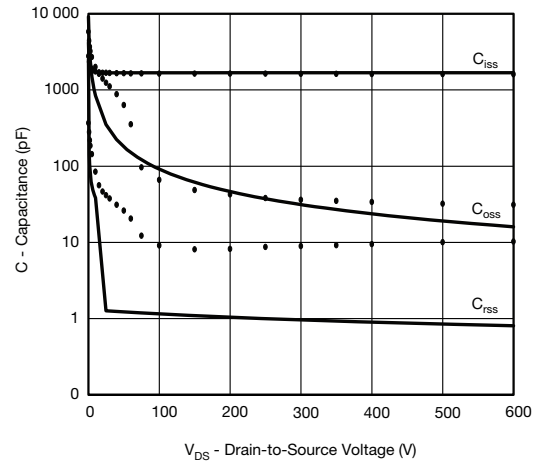
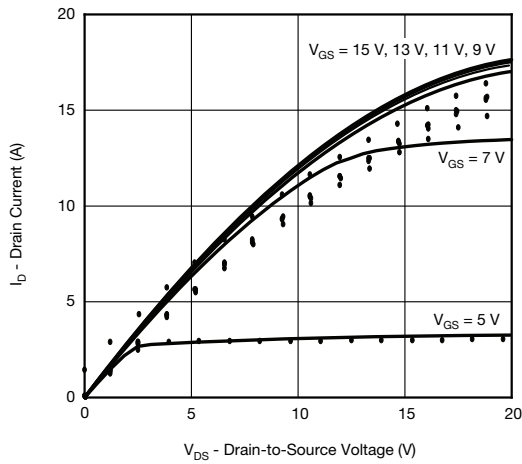
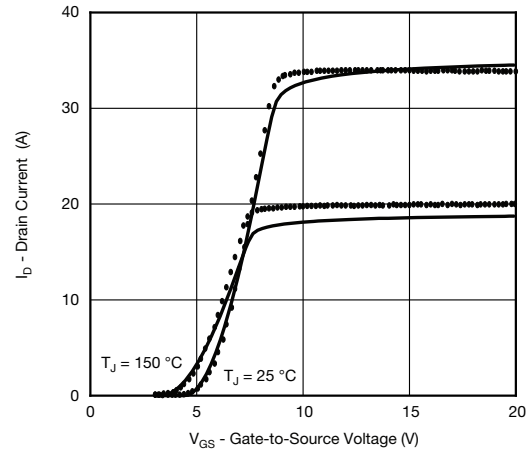
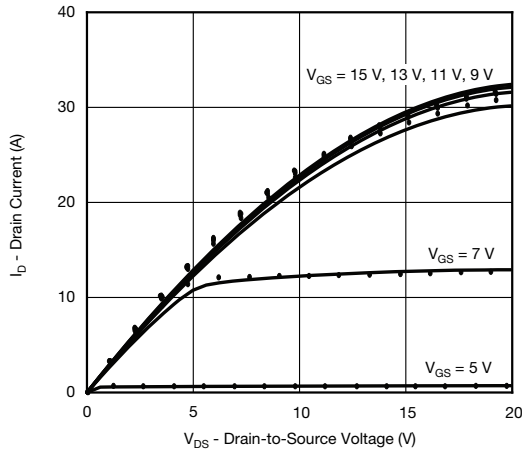




SPECIFICATIONS ($T_J = 25\text{ }^\circ\text{C}$, unless otherwise noted)					
PARAMETER	SYMBOL	TEST CONDITIONS	SIMULATED DATA	MEASURED DATA	UNIT
Static					
Gate-Source Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}, I_D = 250\text{ }\mu\text{A}$	4	-	V
Drain-Source On-State Resistance	$R_{DS(on)}$	$V_{GS} = 10\text{ V}, I_D = 5.5\text{ A}$	0.377	0.350	Ω
Forward Transconductance	g_{fs}	$V_{DS} = 30\text{ V}, I_D = 5.5\text{ A}$	6.2	4.5	S
Dynamic					
Input Capacitance	C_{iss}	$V_{DS} = 100\text{ V}, V_{GS} = 0\text{ V}, f = 1\text{ MHz}$	1680	1640	pF
Output Capacitance	C_{oss}		88	66	
Reverse Transfer Capacitance	C_{rss}		2	9	
Total Gate Charge	Q_g	$V_{DS} = 480\text{ V}, V_{GS} = 10\text{ V}, I_D = 5.5\text{ A}$	45	45	nC
Gate-Source Charge	Q_{gs}		11	11	
Gate-Drain Charge	Q_{gd}		19	19	
Drain-Source Body Diode Characteristics					
Diode Forward Voltage	V_{SD}	$T_J = 25\text{ }^\circ\text{C}, I_S = 11\text{ A}, V_{GS} = 0\text{ V}$	0.9	-	V
Reverse Recovery Time	t_{rr}	$T_J = 25\text{ }^\circ\text{C}, I_F = I_S = 5.5\text{ A},$ $di/dt = 100\text{ A}/\mu\text{s}, V_R = 25\text{ V}$	340	364	ns
Reverse Recovery Charge	Q_{rr}		5.6	4.8	μC



COMPARISON OF MODEL WITH MEASURED DATA ($T_J = 25\text{ }^\circ\text{C}$, unless otherwise noted)



Note

- Dots and squares represent measured data.

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