

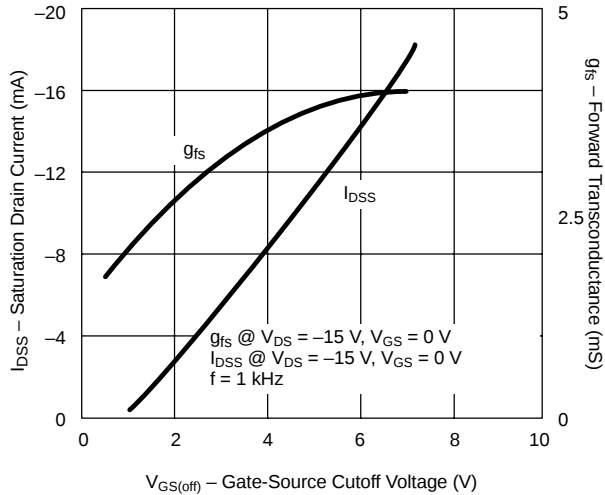
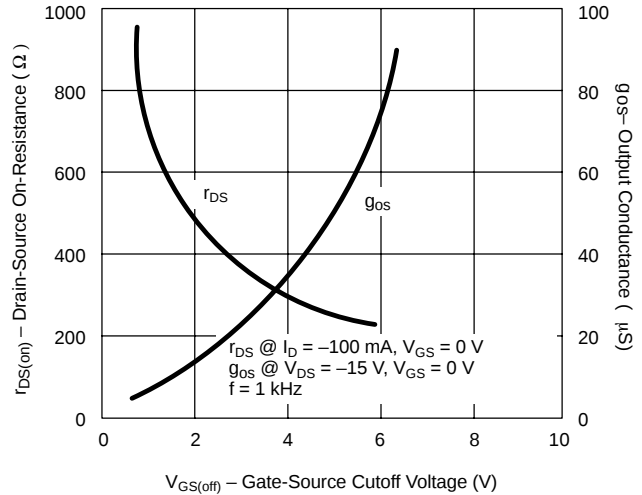
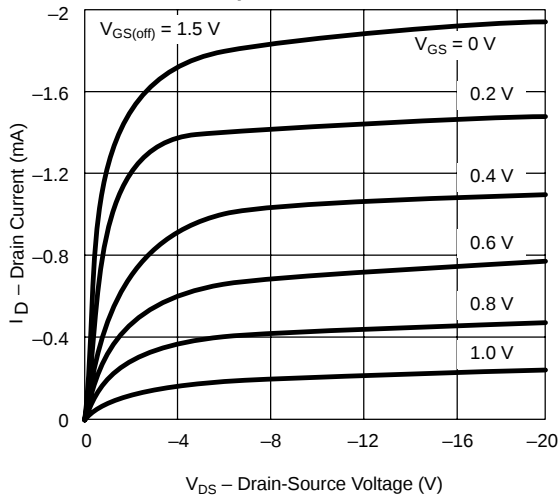
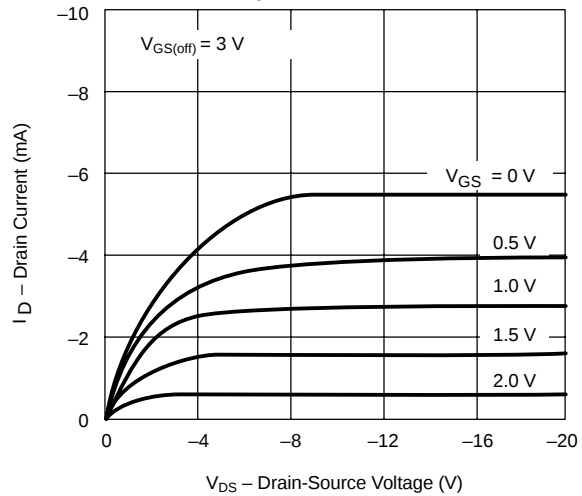
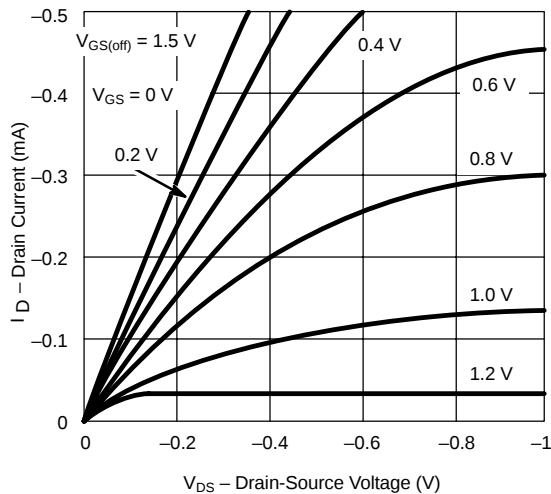
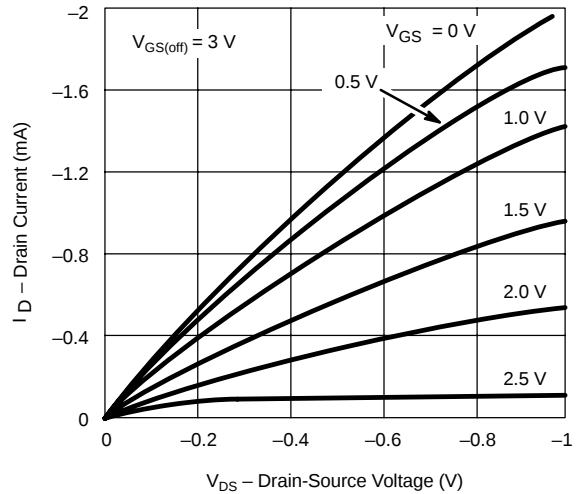
SPECIFICATIONS ($T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

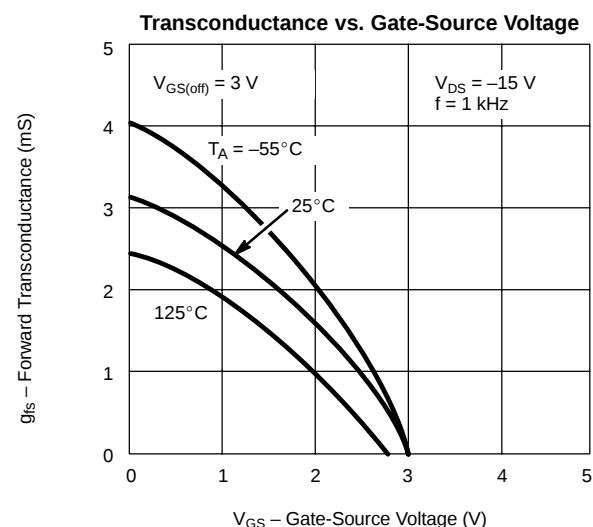
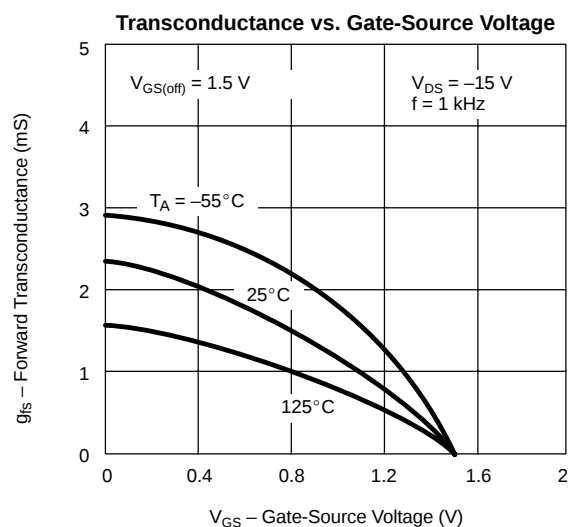
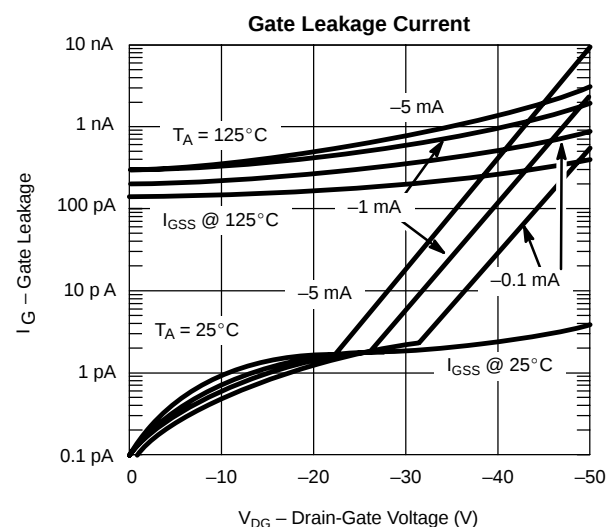
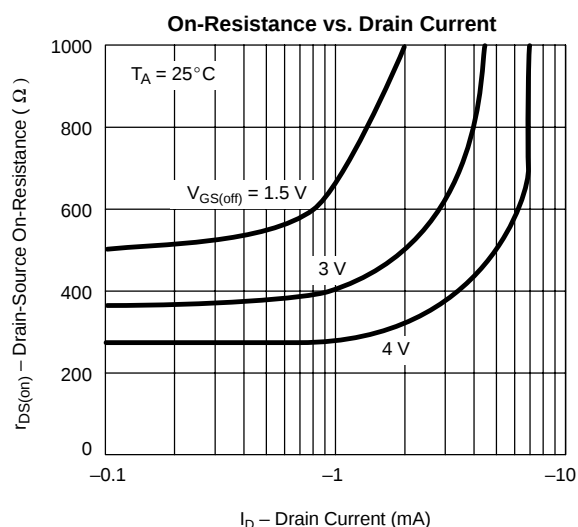
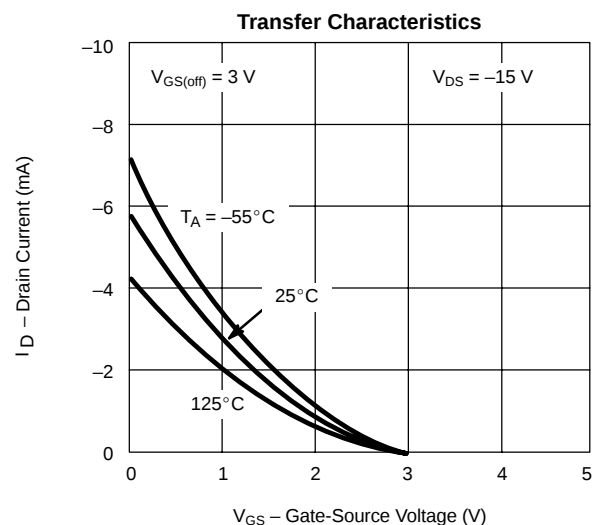
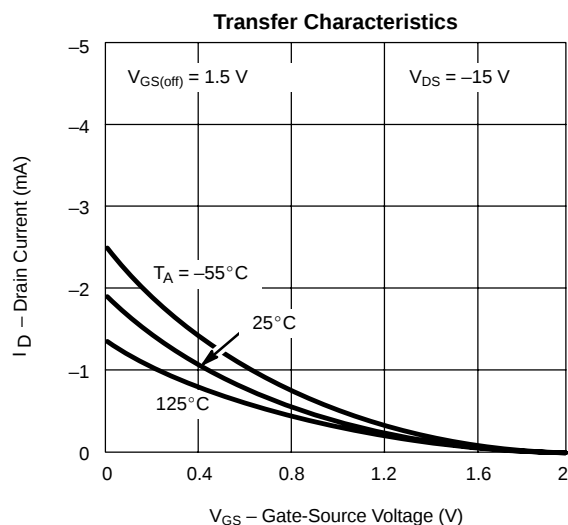
Parameter	Symbol	Test Conditions	Typ ^a	Limits						Unit	
				2N/SST5460		2N/SST5461		2N/SST5462			
				Min	Max	Min	Max	Min	Max		
Static											
Gate-Source Breakdown Voltage	V _{(BR)GSS}	I _G = 10 μA , V _{DS} = 0 V	55	40		40		40		V	
Gate-Source Cutoff Voltage	V _{GS(off)}	V _{DS} = −15 V, I _D = −1 μA		0.75	6	1	7.5	1.8	9		
Saturation Drain Current ^b	I _{DSS}	V _{DS} = −15 V, V _{GS} = 0 V		−1	−5	−2	−9	−4	−16	mA	
Gate Reverse Current	I _{GSS}	V _{GS} = 20 V, V _{DS} = 0 V	0.003		5		5		5	nA	
		T _A = 100°C	0.0003		1		1		1	μA	
Gate Operating Current	I _G	V _{DG} = −20 V, I _D = −0.1 mA	3							pA	
Drain Cutoff Current	I _{D(off)}	V _{DS} = −15 V, V _{GS} = 10 V	−5								
Gate-Source Voltage	V _{GS}	V _{DS} = −15 V	I _D = −0.1 mA	1.3	0.5	4				V	
			I _D = −0.2 mA	2.3			0.8	4.5			
			I _D = −0.4 mA	3.8					1.5		6
Gate-Source Forward Voltage	V _{GS(F)}	I _G = −1 mA , V _{DS} = 0 V	−0.7								
Dynamic											
Common-Source Forward Transconductance	g _{fs}	V _{DS} = −15 V, V _{GS} = 0 V f = 1 kHz		1	4	1.5	5	2	6	mS	
Common-Source Output Conductance	g _{os}				75		75		75	μS	
Common-Source Reverse Transfer Capacitance	C _{iss}	V _{DS} = −15 V, V _{GS} = 0 V f = 1 MHz	2N	4.5		7		7		pF	
			SST	4.5							
Common-Source Reverse Transfer Capacitance	C _{rss}			1.2							
Common-Source Output Capacitance	C _{oss}	2N	1.5		2		2		2		
		SST	1.5								
Equivalent Input Noise Voltage	ē _n	V _{DS} = −15 V, V _{GS} = 0 V f = 100 Hz	2N	15		115		115		115	nV/ √Hz
		SST	15								
Noise Figure	NF	V _{DS} = −15 V, V _{GS} = 0 V f = 100 Hz, R _G = 1 MΩ BW = 1 Hz	2N	0.2		2.5		2.5		2.5	dB
		SST	0.2								

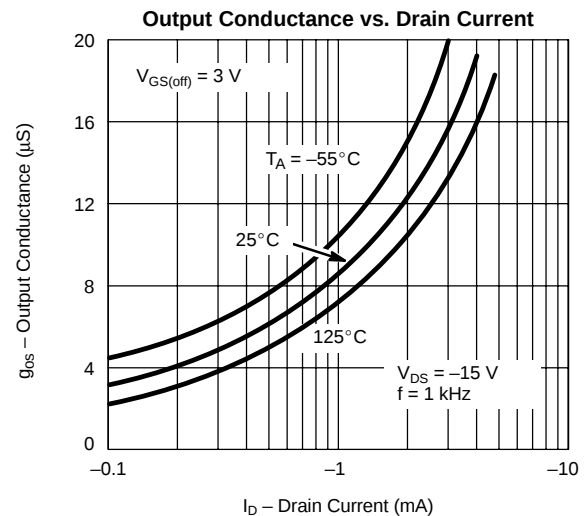
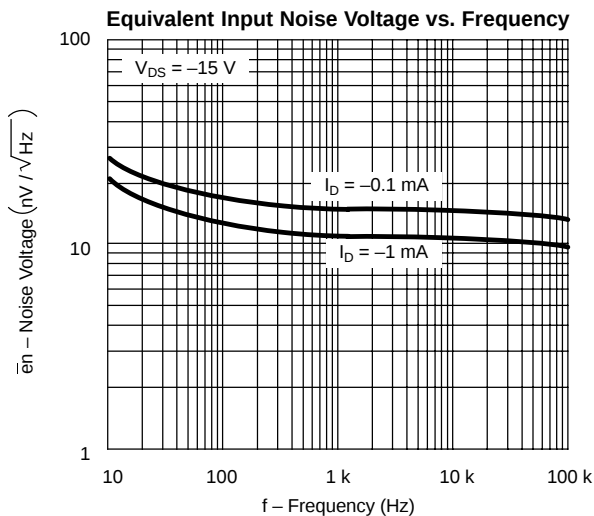
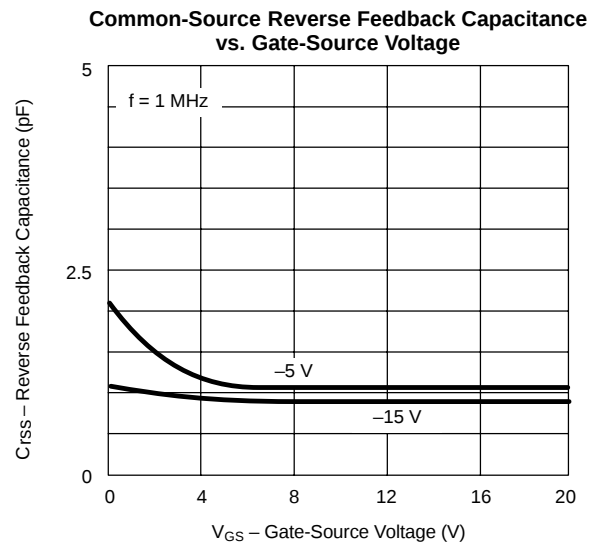
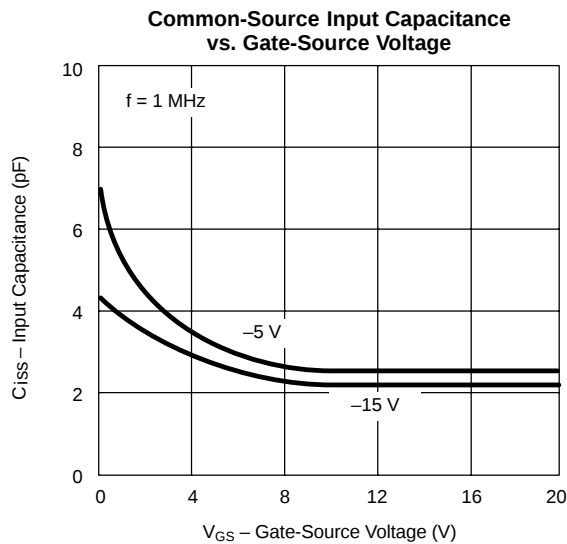
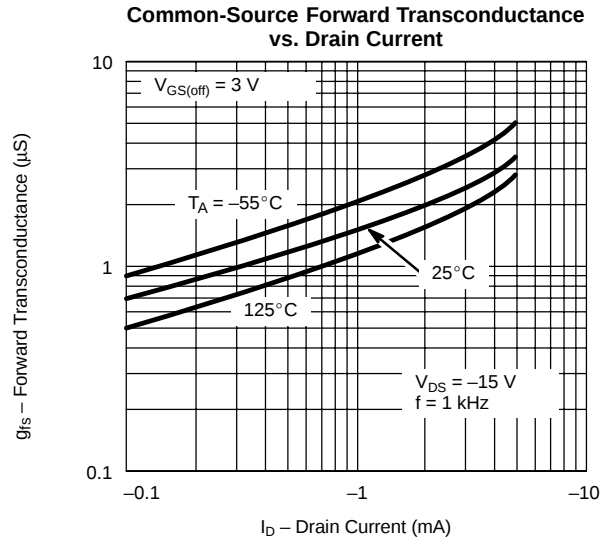
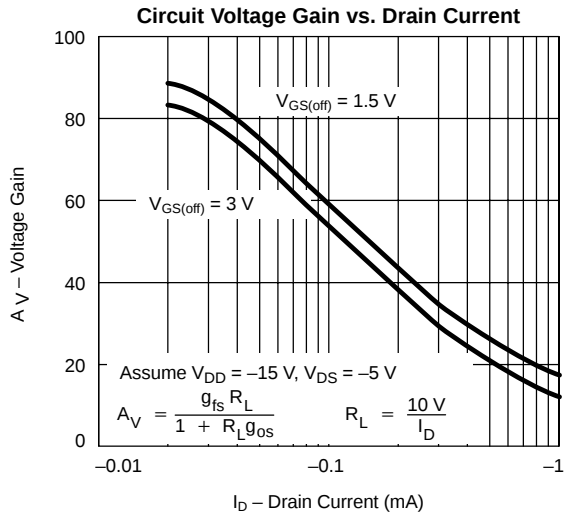
Notes

- a. Typical values are for DESIGN AID ONLY, not guaranteed nor subject to production testing.
b. Pulse test: $PW \leq 300\ \mu\text{s}$ duty cycle $\leq 2\%$.

PSCIB

**TYPICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)****Drain Current and Transconductance
vs. Gate-Source Cutoff Voltage****On-Resistance and Output Conductance
vs. Gate-Source Cutoff Voltage****Output Characteristics****Output Characteristics****Output Characteristics****Output Characteristics**

TYPICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)


**TYPICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)**



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