

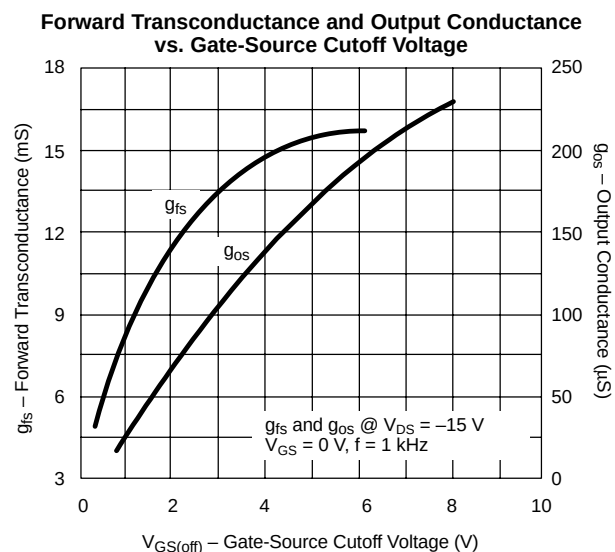
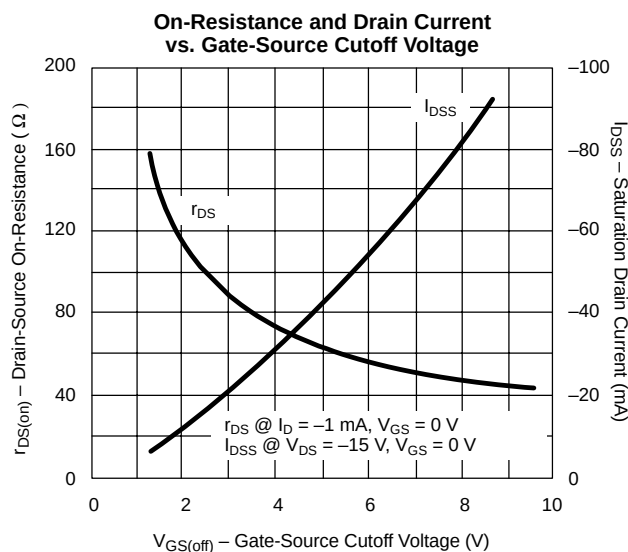
SPECIFICATIONS ($T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

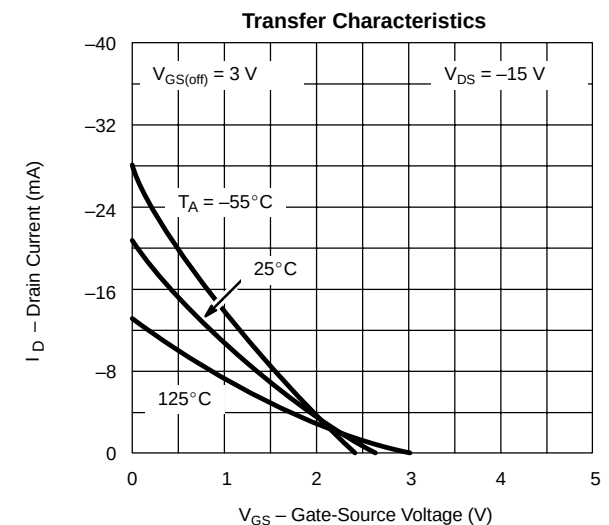
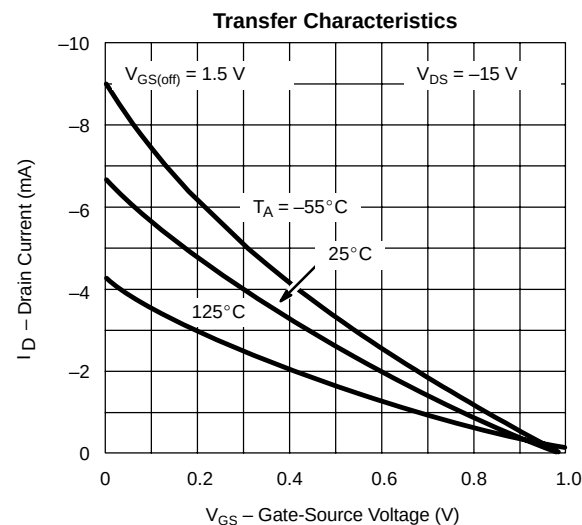
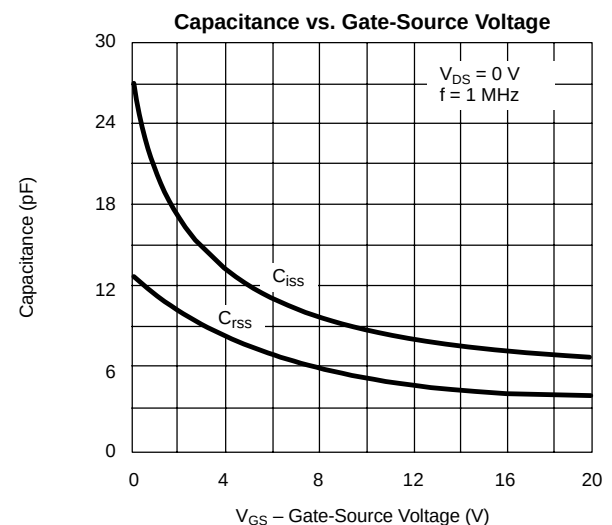
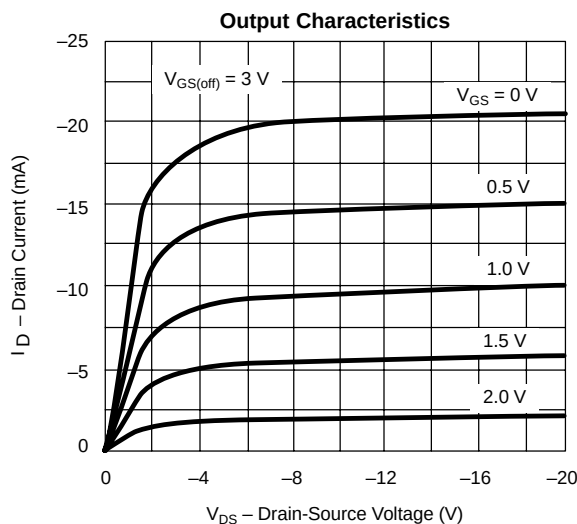
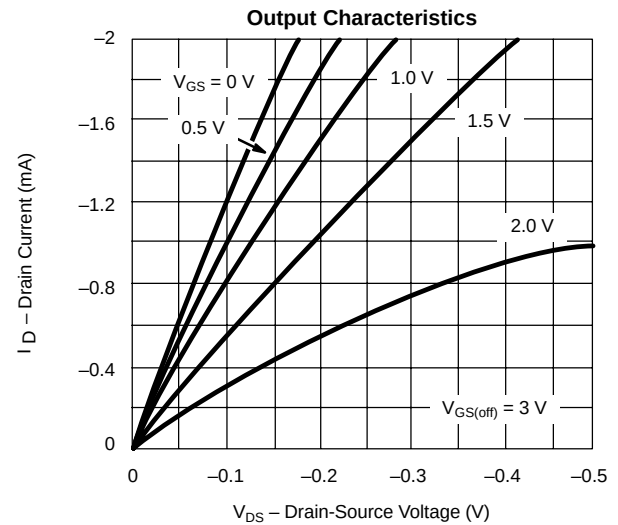
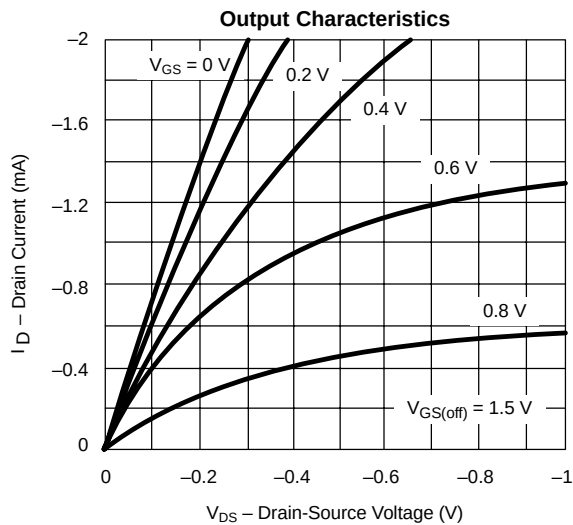
Parameter	Symbol	Test Conditions	Typ ^a	Limits				Unit
				J/SST270		J/SST271		
				Min	Max	Min	Max	
Static								
Gate-Source Breakdown Voltage	V _{(BR)GSS}	I _G = 1 μA , V _{DS} = 0 V	45	30		30		V
Gate-Source Cutoff Voltage	V _{GS(off)}	V _{DS} = −15 V, I _D = −1 nA		0.5	2.0	1.5	4.5	
Saturation Drain Current ^b	I _{DSS}	V _{DS} = −15 V, V _{GS} = 0 V		−2	−15	−6	−50	mA
Gate Reverse Current	I _{GSS}	V _{GS} = 20 V, V _{DS} = 0 V	10		200		200	pA
		T _A = 125°C	5					nA
Gate Operating Current	I _G	V _{DG} = −15 V, I _D = −1 mA	10					pA
Drain Cutoff Current	I _{D(off)}	V _{DS} = −15 V, V _{GS} = 10 V	−10					
Gate-Source Forward Voltage	V _{GS(F)}	I _G = −1 mA , V _{DS} = 0 V	−0.7					V
Dynamic								
Common-Source Forward Transconductance	g _{fs}	V _{DS} = −15 V, V _{GS} = 0 V f = 1 kHz		6	15	8	18	mS
Common-Source Output Conductance	g _{os}				200		500	μS
Common-Source Input Capacitance	C _{iss}	V _{DS} = −15 V, V _{GS} = 0 V f = 1 MHz	20					pF
Common-Source Reverse Transfer Capacitance	C _{rss}		4					
Equivalent Input Noise Voltage	ē _n	V _{DG} = −10 V, V _{GS} = 0 V f = 1 kHz	20					nV/ √Hz

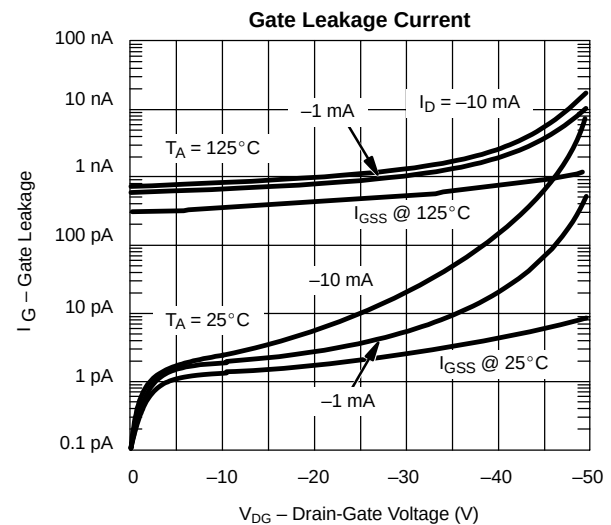
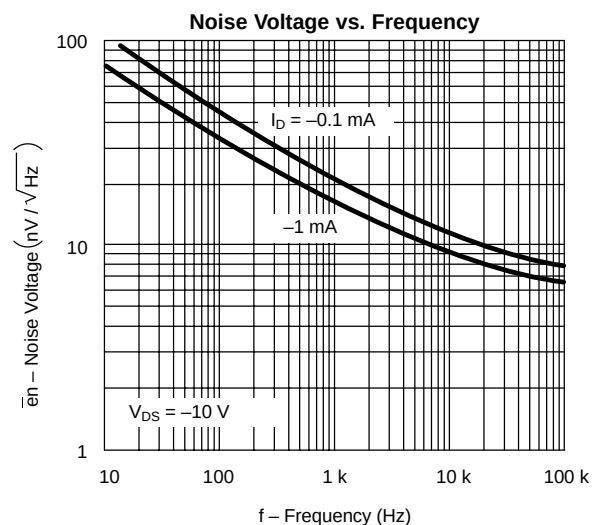
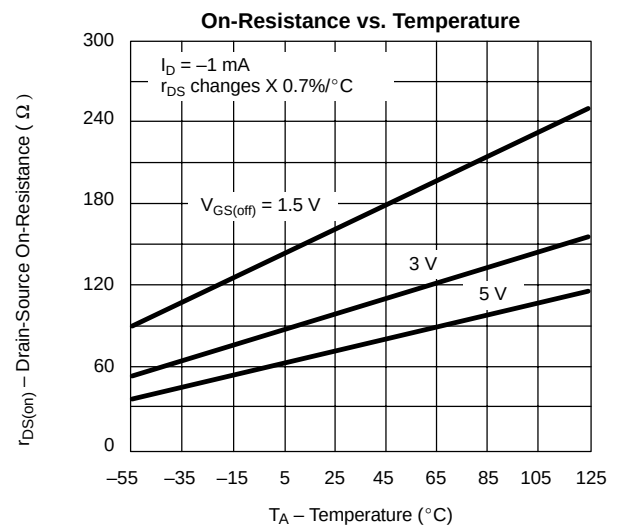
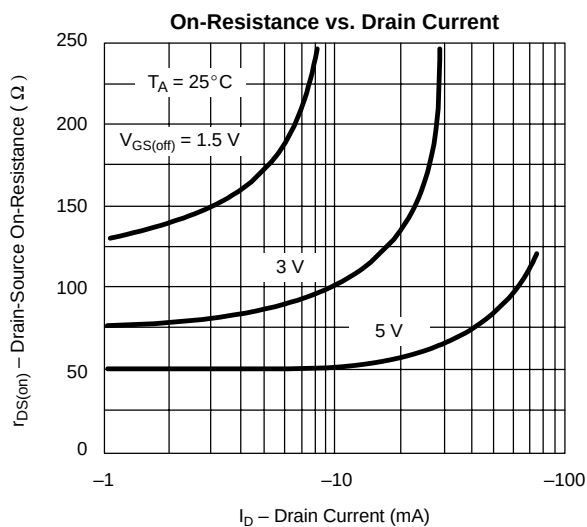
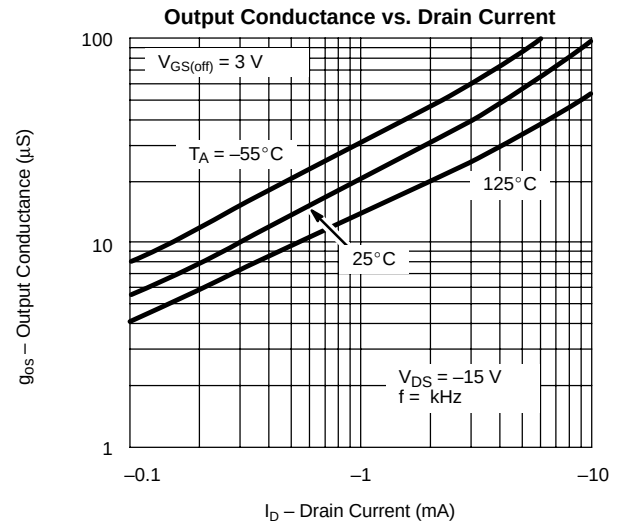
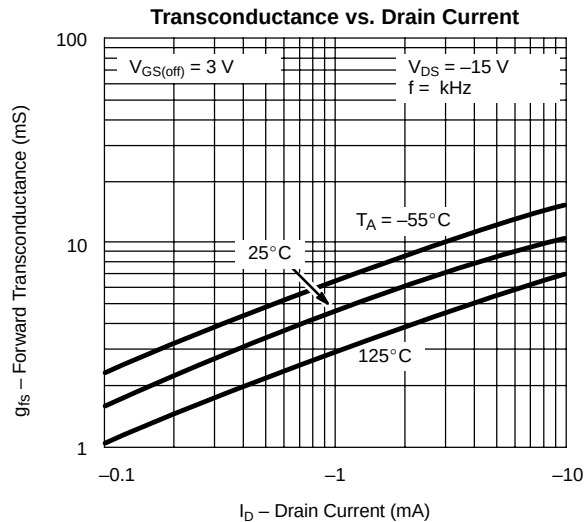
Notes

- 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 $\leq 3\%$.

PSCIA

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

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

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




Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.