

SPECIFICATIONS (T _A = 25 °C UNLESS OTHERWISE NOTED)								
Parameter	Symbol	Test Conditions	Typ ^a	Limits				Unit
				VP0808L		VP1008L		
				Min	Max	Min	Max	
Static								
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} = 0 V, I _D = -10 μA	-110	-80		-100		V
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} = V _{GS} , I _D = -1 mA	-3.4	-2	-4.5	-2	-4.5	
Gate-Body Leakage	I _{GSS}	V _{DS} = 0 V, V _{GS} = ±20 V T _J = 125 °C			±100		±100	nA
					±500		±500	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} = -80 V, V _{GS} = 0 V T _J = 125 °C			-10			μA
					-500			
							-10	
		V _{DS} = -100 V, V _{GS} = 0 V T _J = 125 °C					-500	
On-State Drain Current ^b	I _{D(on)}	V _{DS} = -15 V, V _{GS} = -10 V	-2	-1.1		-1.1		A
Drain-Source On-Resistance ^b	r _{DS(on)}	V _{GS} = -10 V, I _D = -1 A T _J = 125 °C	2.5		5		5	Ω
			4.4		8		8	
Forward Transconductance ^b	g _{fs}	V _{DS} = -10 V, I _D = -0.5 A	325	200		200		mS
Common Source Output Conductance ^b	g _{os}	V _{DS} = -7.5 V, I _D = -0.1 A	0.45					
Dynamic								
Input Capacitance	C _{iss}	V _{DS} = -25 V, V _{GS} = 0 V f = 1 MHz	75		150		150	pF
Output Capacitance	C _{oss}		40		60		60	
Reverse Transfer Capacitance	C _{rss}		18		25		25	
Switching^c								
Turn-On Time	t _{d(on)}	V _{DD} = -25 V, R _L = 47 Ω I _D ≅ -0.5 A, V _{GEN} = -10 V R _G = 25 Ω	11		15		15	ns
	t _r		30		40		40	
Turn-Off Time	t _{d(off)}		20		30		30	
	t _f		20		30		30	

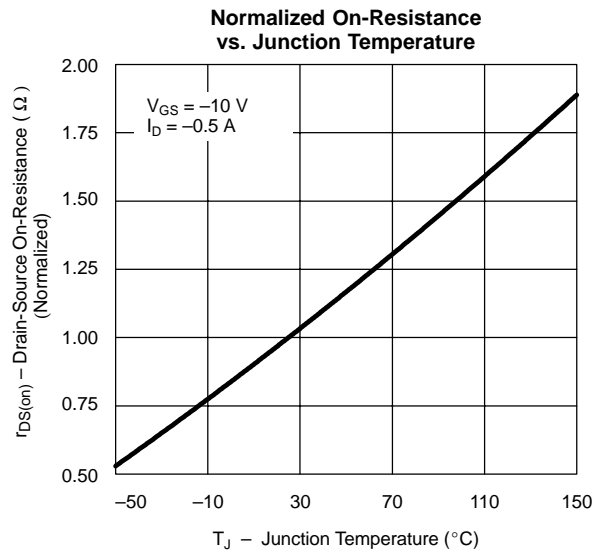
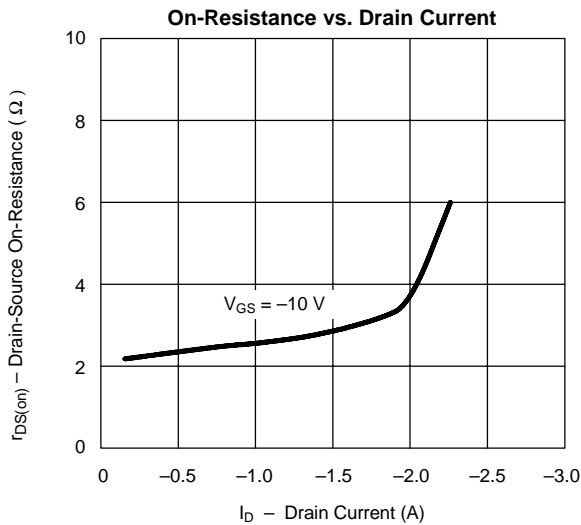
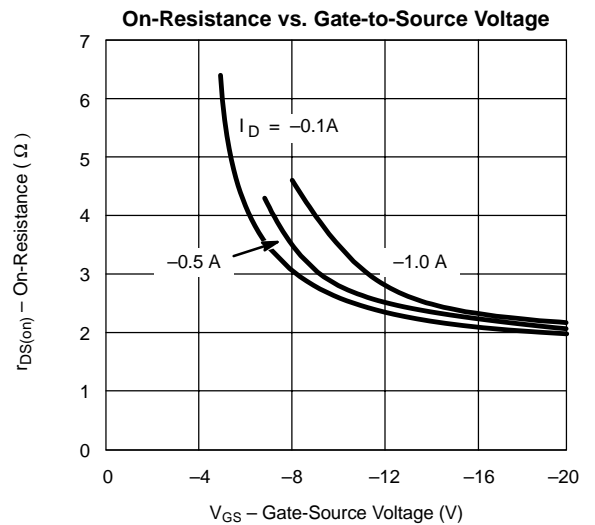
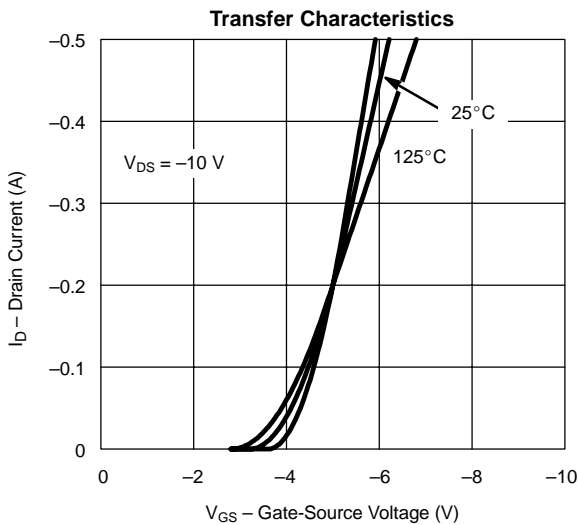
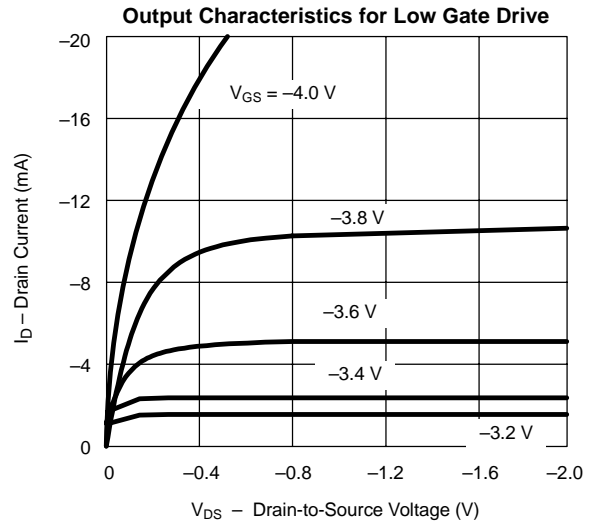
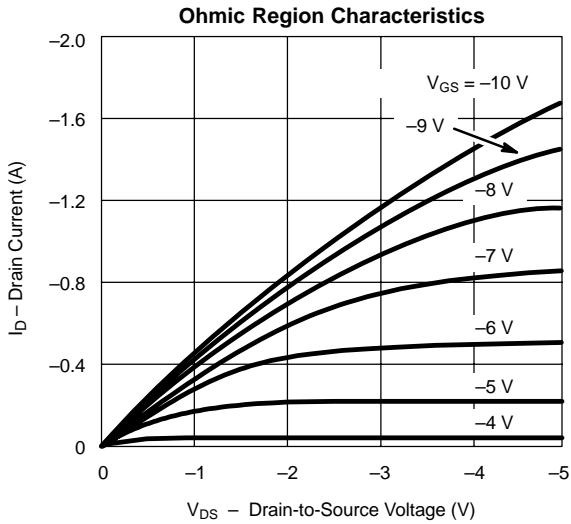
Notes

- a. For DESIGN AID ONLY, not subject to production testing.
- b. Pulse test: PW ≤ 300 μs duty cycle ≤ 2%.
- c. Switching time is essentially independent of operating temperature.

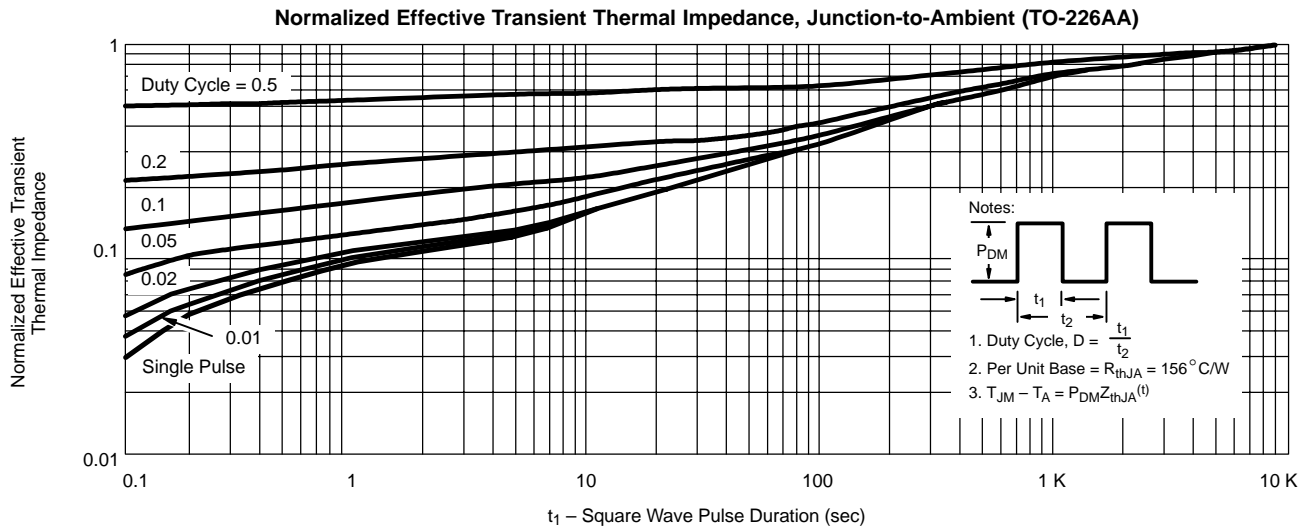
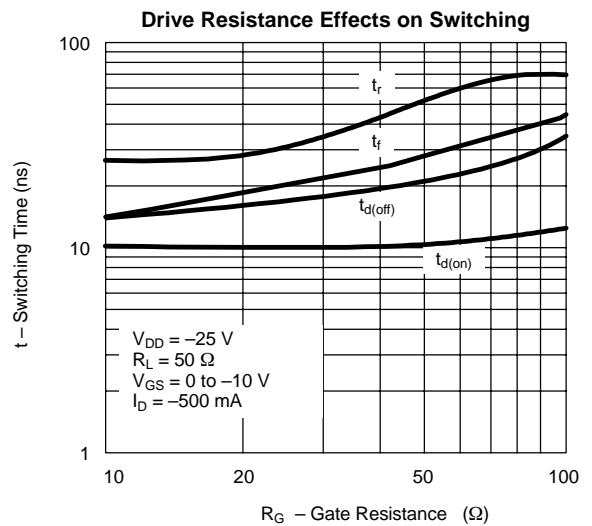
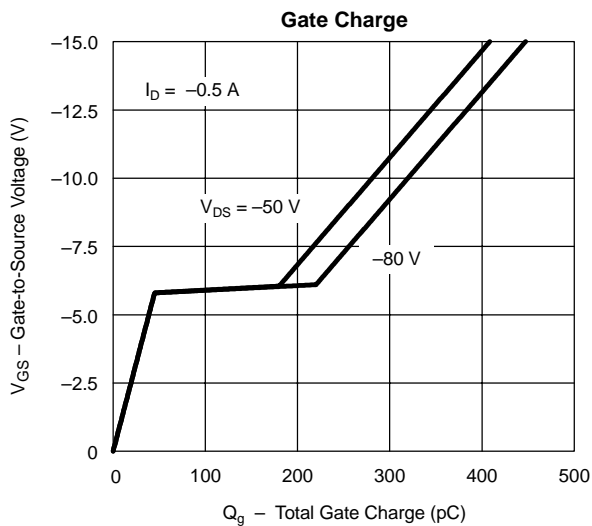
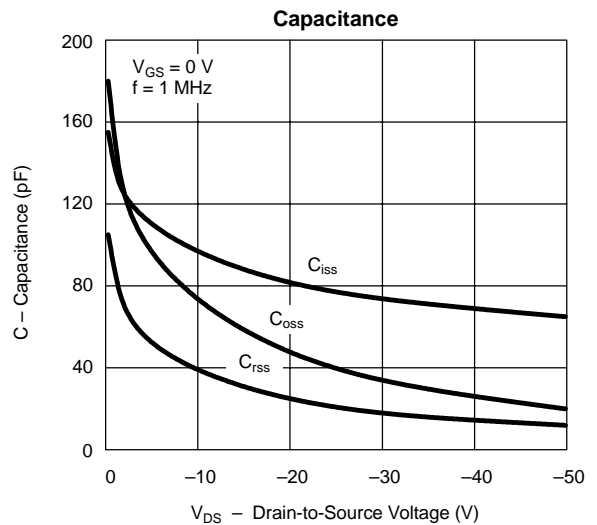
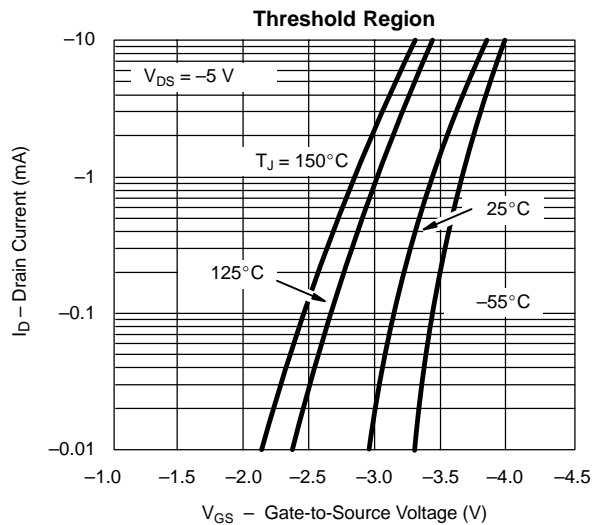
VPDV10



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



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