

ELECTRICAL SPECIFICATIONS

Typical @ 25°C unless otherwise noted

Parameter	Symbol	Min.	Max.	Unit
Gate-Source Breakdown Voltage $V_{DS} = 0Vdc, I_G = 1.0Adc$	$V_{(BR)GSS}$	-40		Vdc
Gate-Source "Off" State Voltage $V_{DS} = 15Vdc, I_D = 0.5nAdc$	$V_{GS(off)}$	-4 -2 -0.8	-10 -6 -4	Vdc Vdc Vdc
Gate Reverse Current $V_{DS} = 0Vdc, V_{GS} = -20Vdc$ $V_{DS} = 0Vdc, V_{GS} = -15Vdc$	I_{GSS}		-0.25 -0.25	nA nA
Drain Current $V_{DS} = 15Vdc, V_{GS} = -10Vdc$ $V_{DS} = 15Vdc, V_{GS} = 0Vdc$	$I_{D(off)}$	50 20 8	0.25 175 100 80	nA mA mA mA
Static Drain - Source "On" State Resistance $V_{GS} = 0Vdc, I_D = 1mAdc$	$R_{DS(on)}$		25 40 60	Ω Ω Ω
Drain Source "On" State Voltage $V_{GS} = 0Vdc, I_D = 20mAdc$ $V_{GS} = 0Vdc, I_D = 10mAdc$ $V_{GS} = 0Vdc, I_D = 5mAdc$	$V_{DS(on)}$		0.75 0.5 0.5	Vdc Vdc Vdc
Small Signal, Common Source Reverse Transfer Capacitance $V_{GS} = -10Vdc, V_{DS} = 0Vdc, f = 1.0MHz$ $C_1 = 0.1\mu F, L_1 = L_2 \geq 500\mu H$	C_{rss}		8	pF
Small Signal, Common Source Short-Circuit Input Capacitance $V_{GS} = -10Vdc, V_{DS} = 0Vdc, f = 1.0MHz$ $C_1 = 0.1\mu F, C_2 = 20.1m$ $F_{L1} = L_2 \geq 500\mu H$	C_{iss}		8	pF
Turn On Delay Time	$t_{D(on)}$		6 6 10	nS nS nS
Rise Time	t_r		3 4 10	nS nS nS
Turn Off Delay Time	$t_{d(off)}$		25 50 100	nS nS nS