Gate Operating Current	I_G		– 250		– 250	nA	V_{DS} = 20V, I_D = 200 µA	T_A = 125°C
Gate Source Voltage	V_{GS}		– 4.2		– 4.2	V	V_{DS} = 20V, I_D = 50 µA	
		– 0.5	– 4	– 0.5	– 4	V	V_{DS} = 20V, I_D = 200 µA	
Gate Source Cutoff Voltage	$V_{GS(OFF)}$	– 1	– 4.5	– 1	– 4.5	V	V_{DS} = 20V, I_D = 1 nA	
Gate Source Forward Voltage	$V_{GS(F)}$		2		2	V	V_{DS} = Ø, I_G = 1 mA	
Drain Saturation Current (Pulsed)	I_{DSS}	0.5	5	0.5	5	mA	V_{DS} = 20V, V_{GS} = ØV	

Dynamic Electrical Characteristics

Common Source Forward Transconductance	g_{fs}	1000	3000	1000	3000	µS	V_{DS} = 20V, V_{GS} = ØV	f = 1 kHz
		1000		1000		µS	V_{DS} = 20V, V_{GS} = ØV	f = 200 MH
Common Source Output Conductance	g_{os}		35		35	µS	V_{DS} = 20V, V_{GS} = ØV	f = 1 kHz
Common Source Input Capacitance	C_{iss}		4		4	pF	V_{DS} = 20V, V_{GS} = ØV	f = 1 MHz
Drain Gate Capacitance	C_{dgo}		1.5		1.5	pF	V_{DS} = 10V, I_S = ØA	f = 1 MHz
Common Source Reverse Transfer Capacitance	C_{rss}		1.2		1.2	pF	V_{DS} = 20V, V_{GS} = ØV	f = 1 MHz
Noise Figure	NF		0.5		0.5	dB	V_{DS} = 20V, V_{GS} = ØV R_G = 10 MΩ	f = 100 Hz
Differential Gate Current	$\lvert I_{G1} - I_{G2} \rvert$		10		10	nA	V_{DS} = 20V, I_D = 200 µA	T_A = 125°C
Saturation Drain Current Ratio	I_{DSS1} / I_{DSS2}	0.9	1	0.85	1		V_{DS} = 20V, V_{GS} = ØV	
Differential Gate Source Voltage	$\lvert V_{GS1} - V_{GS2} \rvert$		20		25	mV	V_{DS} = 20V, I_D = 200 µA	
Differential Gate Source Voltage with Temperature	$\frac{\Delta V_{GS1} - V_{GS2}}{\Delta T}$		6		8	mV	V_{DS} = 20V, I_D = 200 µA	T_A = 25°C to – 55°C
			7.5		10	mV	V_{DS} = 20V, I_D = 200 µA	T_A = 25°C to 125°C
Transconductance Ratio	g_{fs1} / g_{fs2}	0.9	1	0.85	1		V_{DS} = 20V, I_D = 200 µA	f = 1 kHz

InterFET Corporation
1000 N. Shiloh Road, Garland, TX 75042
(972) 487-1287 FAX (972) 276-3375

TO-71 Package
See Section G for Outline Dimensions

Pin Configuration
1 Source, 2 Drain, 3 Gate, 5 Source, 6 Drain, 7 Gate