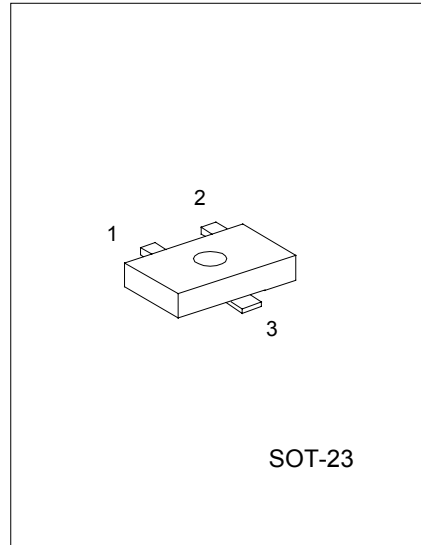


Low-Frequency General-Purpose Amplifier Applications

FEATURES

\* Ideal for potentiometers, analog switches, low frequency amplifiers, constant current supplies, and impedance conversion.



1: Drain 2: Source 3: Gate

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Drain-to-Source Voltage	V <sub>DSS</sub>	30	V
Gate-to-Drain Voltage	V <sub>GDS</sub>	-30	V
Gate Current	I <sub>G</sub>	10	mA
Drain Current	I <sub>D</sub>	20	mA
Allowable Power Dissipation	P <sub>D</sub>	200	mW
Junctin Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55 ~ +150	°C

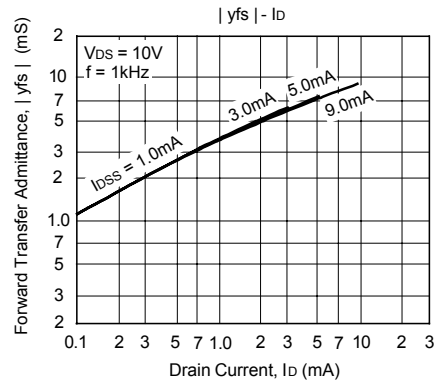
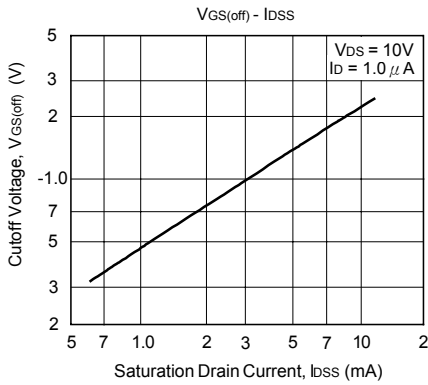
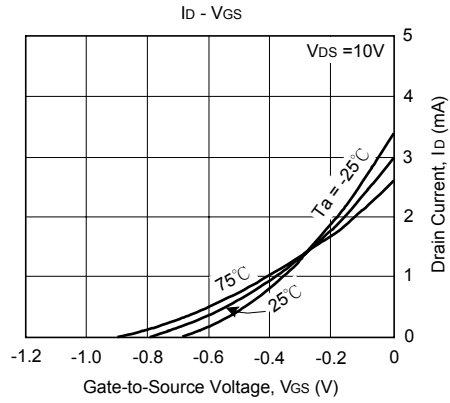
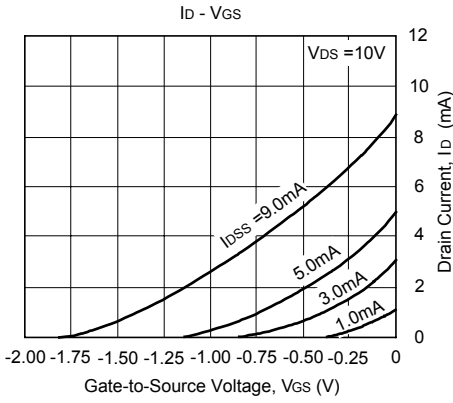
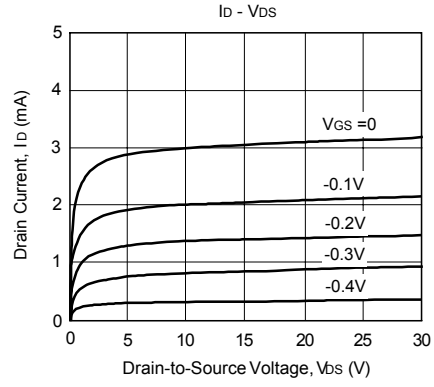
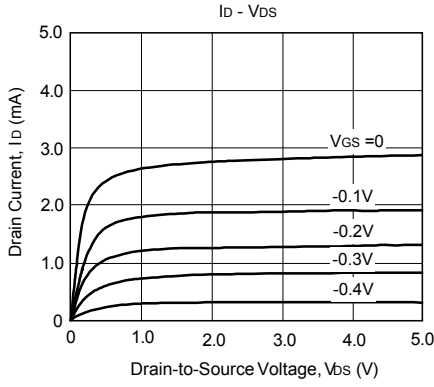
ELECTRICAL CHARACTERISTICS (Ta=25°C)

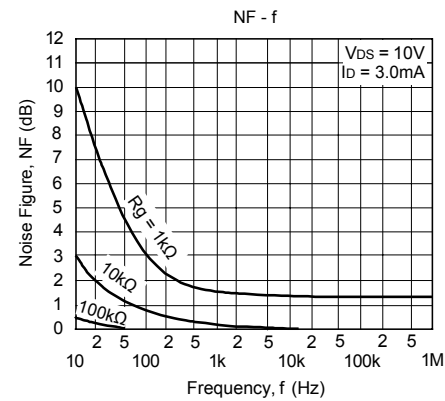
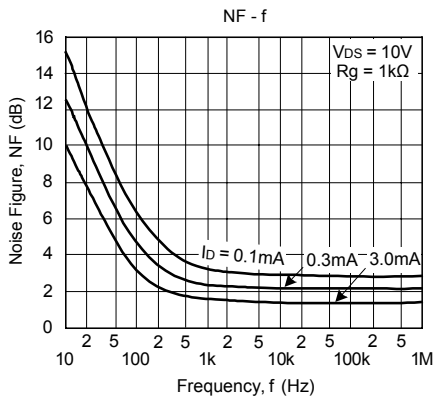
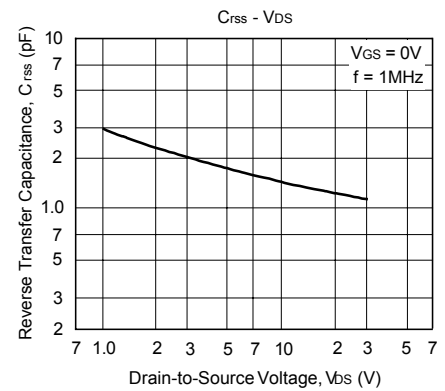
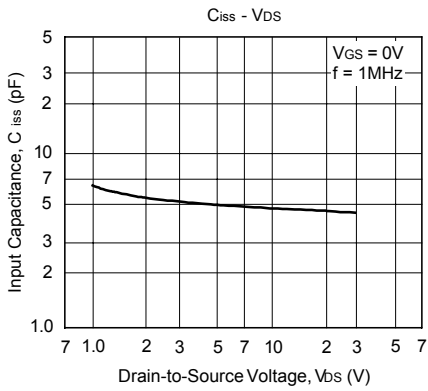
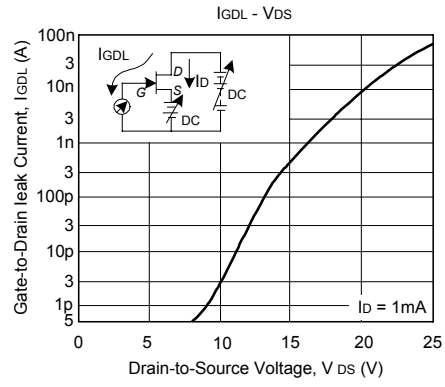
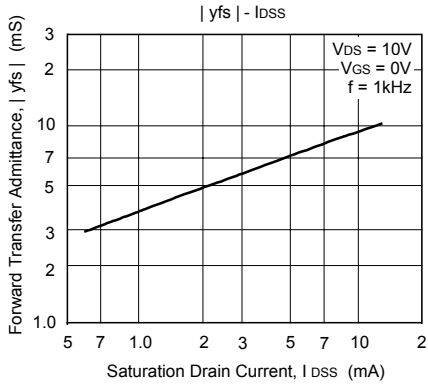
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Gate-to-Drain	V <sub>(BR)GDS</sub>	I <sub>G</sub> =-10 μA	-30			V
Gate-to-Source Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> =-20V			-1.0	nA
Zero-Gate Voltage Drain Current	I <sub>DSS</sub> *	V <sub>DS</sub> =10V, V <sub>GS</sub> =0	0.6*		12.0*	mA
Cutoff Voltage	V <sub>GS(off)</sub>	V <sub>DS</sub> =10V, I <sub>D</sub> =1 μA		-1	-4	V
Forward Transfer Admittance	y <sub>fs</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0, f=1MHz	2.5	6.0		mS
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0, f=1MHz		5		pF
Reverse Transfer Capacitance	C <sub>rss</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0, f=1MHz		1.5		pF
Drain-to- Source ON Resistance	R <sub>Ds(ON)</sub>	V <sub>DS</sub> =10mV, V <sub>GS</sub> =0		250		Ω

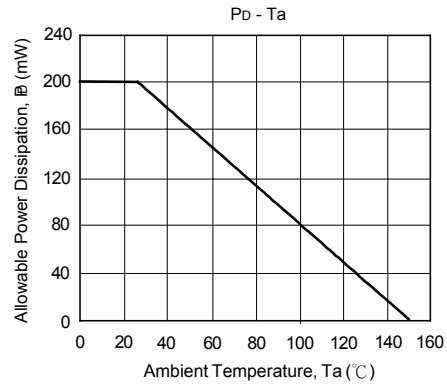
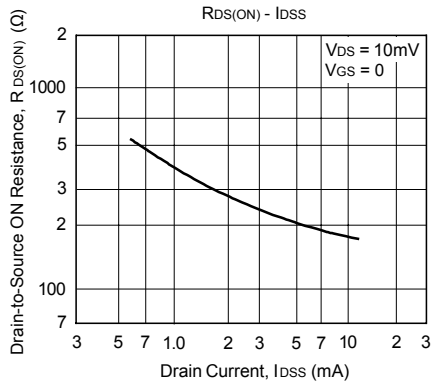
CLASSIFICATION OF I<sub>DSS</sub>

RANK	V2	V3	V4	V5
MARKING CODE	V2	V3	V4	V5
I <sub>DSS</sub> (mA)	0.6 ~ 1.5	1.2 ~ 3.0	2.5 ~ 6.0	5.0 ~ 12.0

TYPICAL PERFORMANCE CHARACTERISTICS







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