

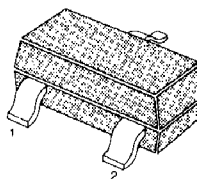
**FM TUNER  
VHF AMPLIFIER**

- NF =2.5dB (TYP)
- $|Y_{FS}|=9.0$  ms (TYP)

**ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)**

Characteristic	Symbol	Rating	Unit
Gate-Drain Voltage	V <sub>GDO</sub>	-18	V
Gate-Current	I <sub>G</sub>	10	mA
Power Dissipation	P <sub>D</sub>	200	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>STG</sub>	-55 ~ 125	°C

SOT-23



1. Drain 2. Gate 3. Source

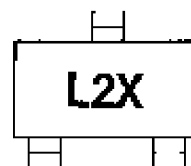
**ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25 ° )**

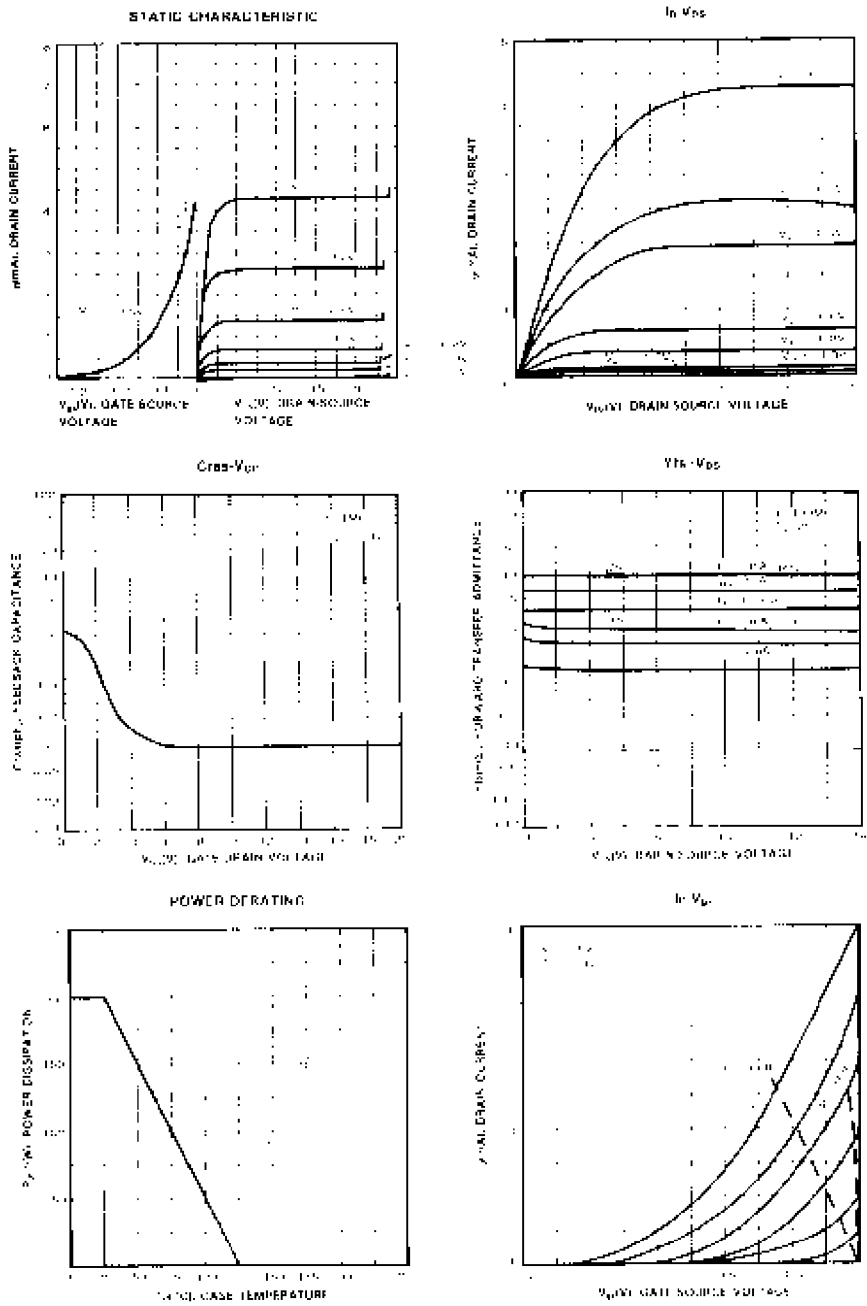
Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Gate Cut-off Current	I <sub>GSS</sub>	V <sub>GS</sub> = 0.5V, V <sub>DS</sub> = 0			-10	nA
Gate-Drain Breakdown Voltage	V(BR) <sub>GDO</sub>	I <sub>G</sub> = -100μA, Drain	-18			V
Drain Current	I <sub>DSS</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0	1.0		10	mA
Gate-Source Cut-off Voltage	V <sub>GS</sub> (off)	V <sub>DS</sub> =10V, I <sub>D</sub> =1μA	0.4		4.0	V
Forward Transfer Admittance	Y <sub>FS</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0, f=1KHz		9		ms
Reverse Transfer Capacitance	C <sub>rss</sub>	V <sub>GD</sub> =10V, f=1MHz			0.15	pF
Power Gain	C <sub>PS</sub>	V <sub>DD</sub> =10V, f=100MHz		18		dB
Noise Figure	NF	V <sub>DD</sub> =10V, f=100MHz		2.5	3.5	dB

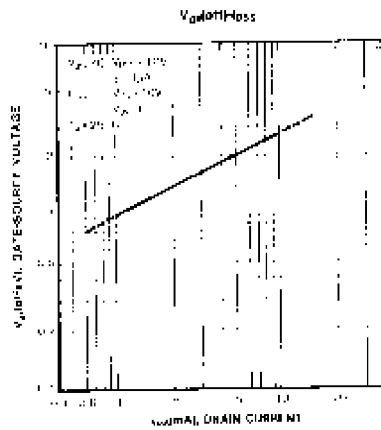
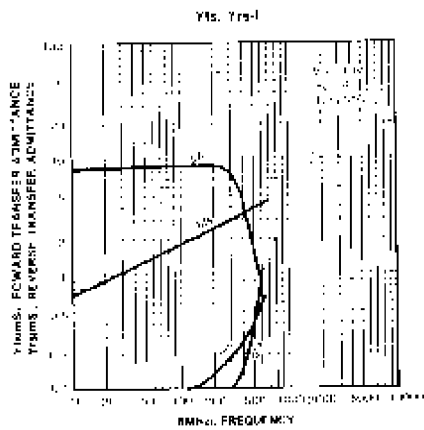
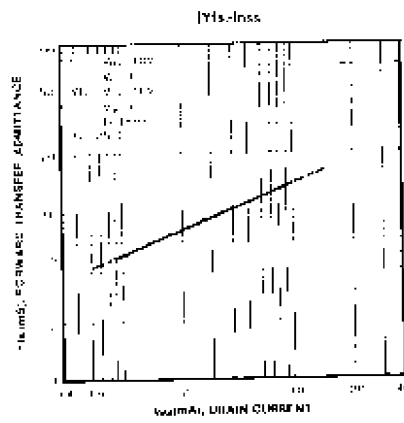
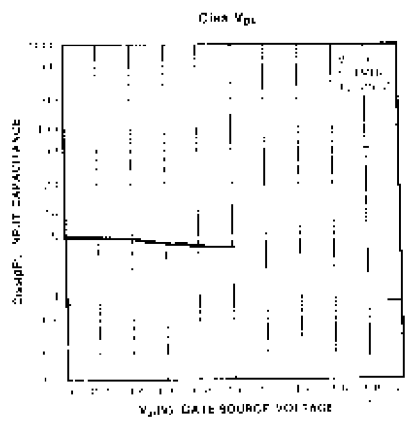
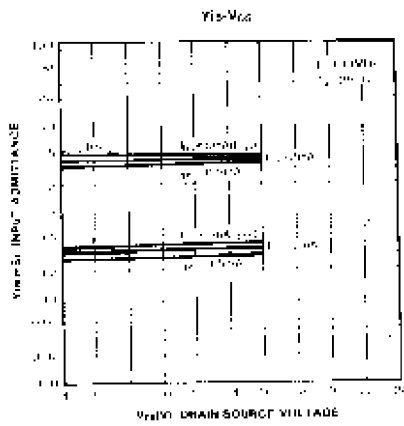
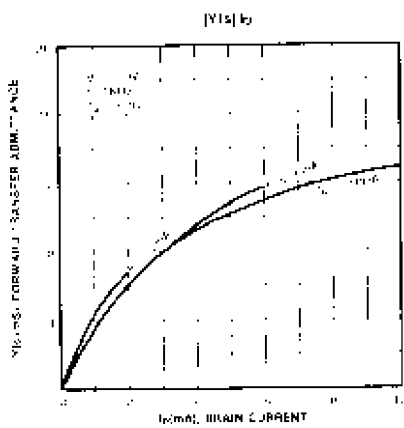
**I<sub>DSS</sub> CLASSIFICATION**

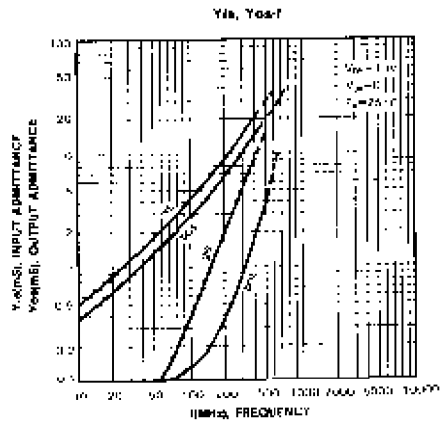
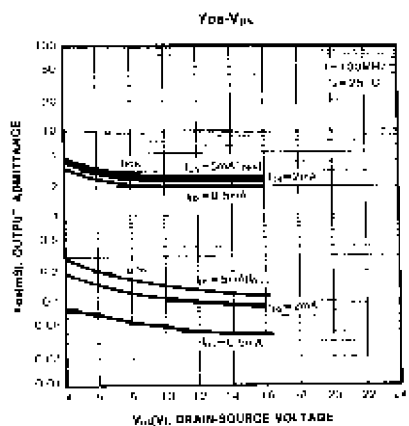
Classification	O	Y	G
I <sub>DSS</sub> (mA)	1.0-3.0	2.5-6.0	5.0-10

**Marking**









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FACT Quiet Series™	Quiet Series™
FAST®	SuperSOT™-3
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