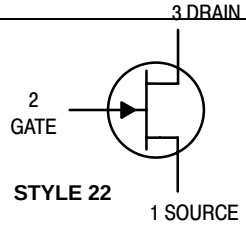
JFET VHF/UHF Am lifie

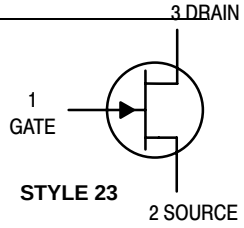
N–Channel — Depletion

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Drain–Source Voltage	V_{DS}	±30	Vdc
Drain–Gate Voltage	V_{DG}	30	Vdc
Gate–Source Voltage	V_{GS}	30	Vdc
Drain Current	I_D	100	mAdc
Forward Gate Current	$I_{G(f)}$	10	mAdc
Total Device Dissipation @ T_A = 25°C Derate above 25°C	P_D	350 2.8	mW mW/°C
Storage Channel Temperature Range	T_{stg}	–65 to +150	°C



STYLE 22



STYLE 23

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
OFF CHARACTERISTICS					
Gate–Source Breakdown Voltage (I_G = 1.0 μAdc, V_{DS} = 0)	$V_{(BR)GSS}$	30	—	—	Vdc
Gate–Source (V_{DS} = 15 Vdc, I_D = 200 μAdc)	BF245(1)				

Breakdowc1.2472 TDÈ6(VfTjÈ076094 -0.248 TDÈ0 TwÈ(G)TjÈ0.770-4067(B389 0.248 TDÈ-0.002 TcÈ(= 15 V

ELECTRI

s otherwise noted) (Continued)

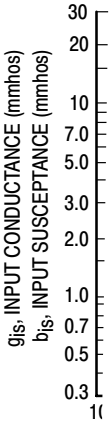
		Symbol	Min	Typ	Max	Unit
SMALL–S						
Forward T	, V_{GS} = 0, f = 1.0 kHz)	$\|Y_{fs}\|$	3.0	—	6.5	mmhos
Output Ad	, V_{GS} = 0, f = 1.0 kHz)	$\|Y_{os}\|$	—	40	—	μmhos
Forward T	V_{GS} = 0, f = 200 MHz)	$\|Y_{fs}\|$	—	5.6	—	mmhos
Reverse T	V_{GS} = 0, f = 200 MHz)	$\|Y_{rs}\|$	—	1.0	—	mmhos
Input Cap	Vdc, $-V_{GS}$ = 1.0 Vdc)	C_{iss}	—	3.0	—	pF
Reverse T	= 1.0 Vdc, f = 1.0 MHz)	C_{rss}	—	0.7	—	pF
Output Ca	= 1.0 Vdc, f = 1.0 MHz)	C_{oss}	—	0.9	—	pF
Cut–off Fr	DS = 15 Vdc, V_{GS} = 0)	$F_{(Yfs)}$	—	700	—	MHz

3. The frequ

OURCE CHARACTERISTICS

TTANCE PARAMETERS

15 Vdc, $T_{channel}$ = 25°C)



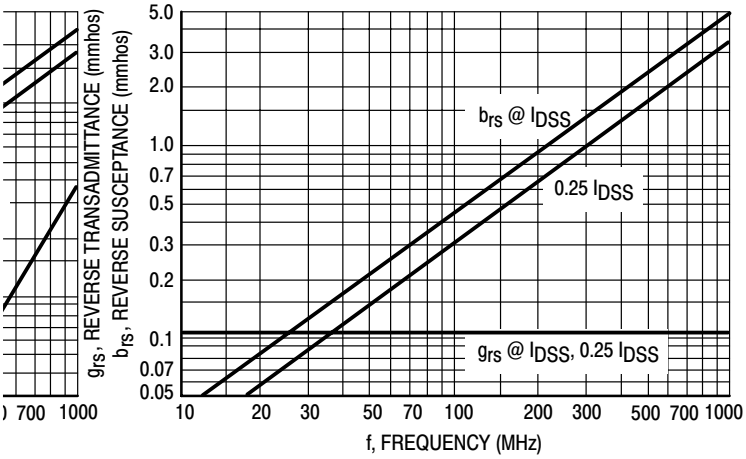


Figure 2. Reverse Transfer Admittance (y_{rs})

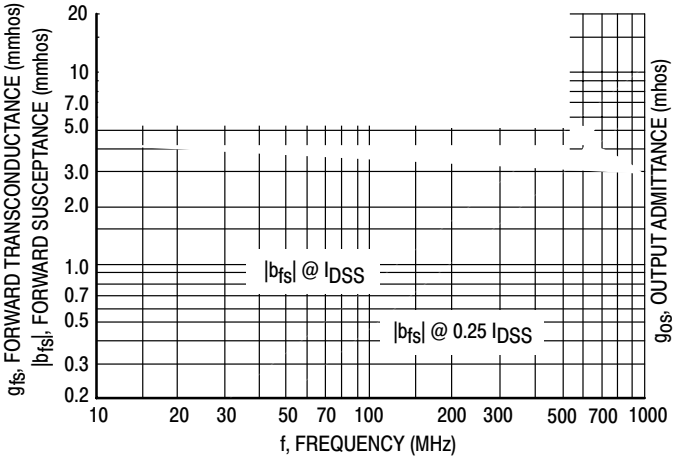


Figure 3. Forward Transadmittance (y_{fs})

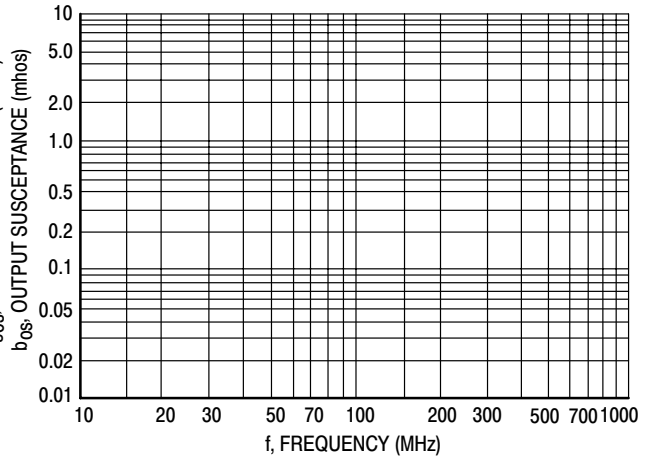


Figure 4. Output Admittance (y_{os})

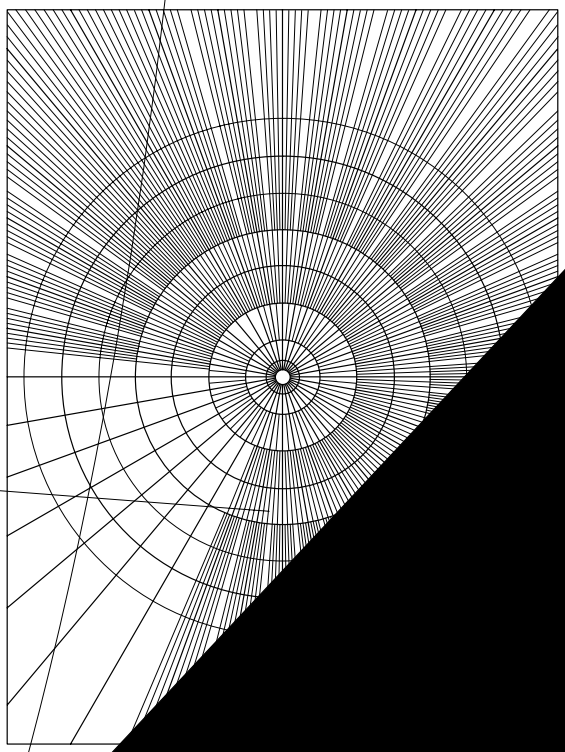


Figure 5. S_{11s}

ADMITTANCE PARAMETERS

(V_{DG} = 15 Vdc, $T_{channel}$ = 25°C)

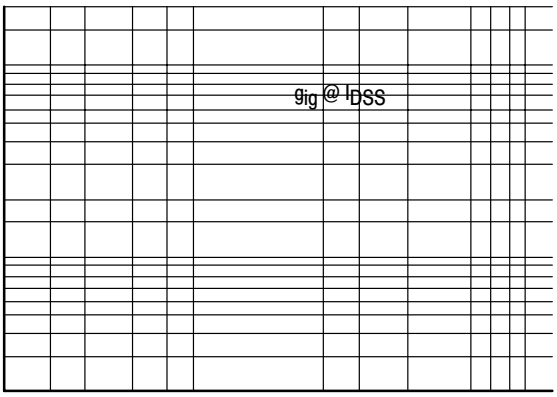


Figure 9. Input Admittance (y_{ig})

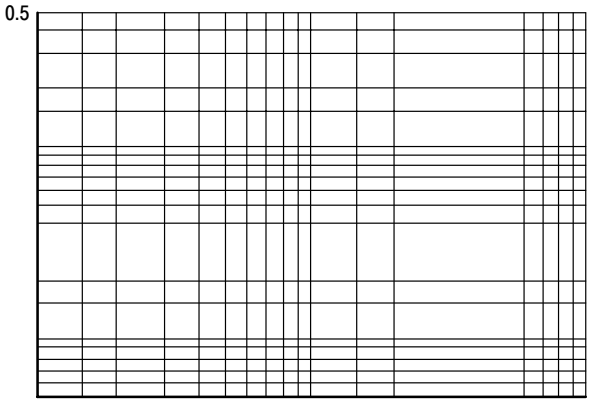


Figure 10. Reverse Transfer Admittance (y_{rg})

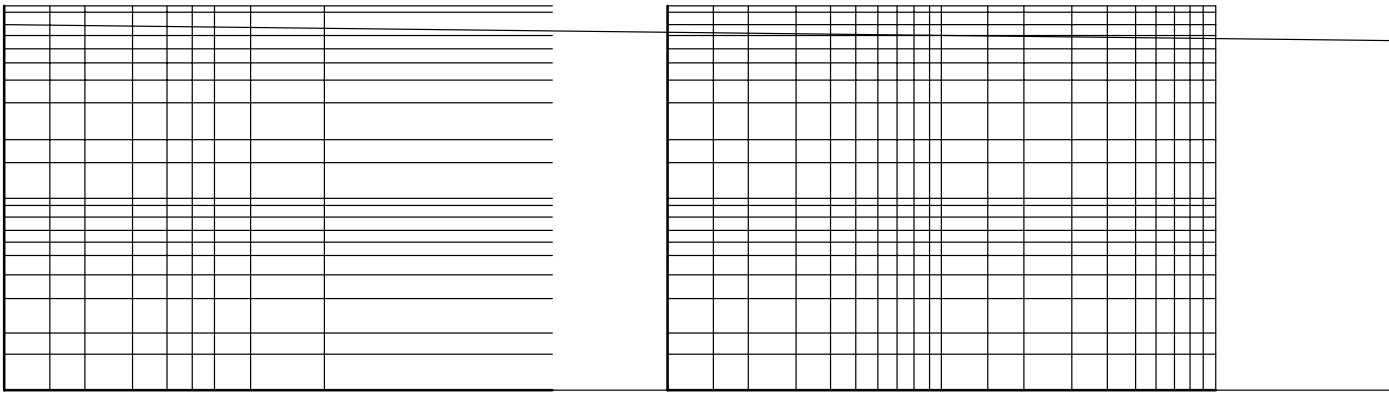
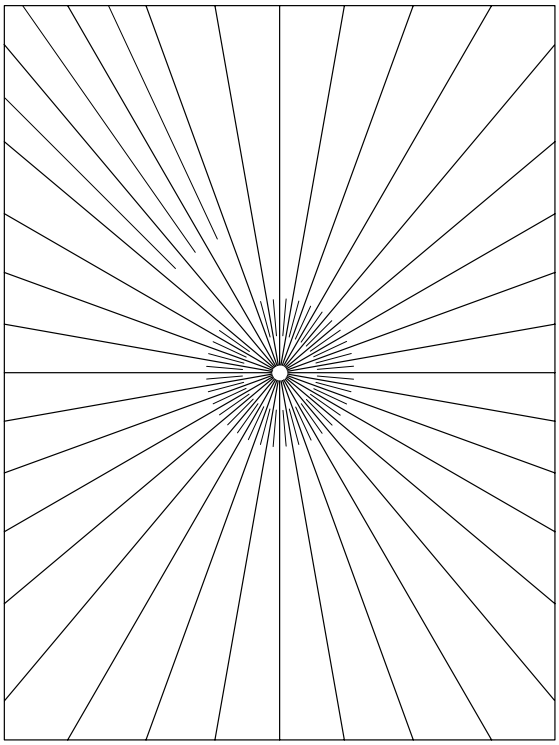


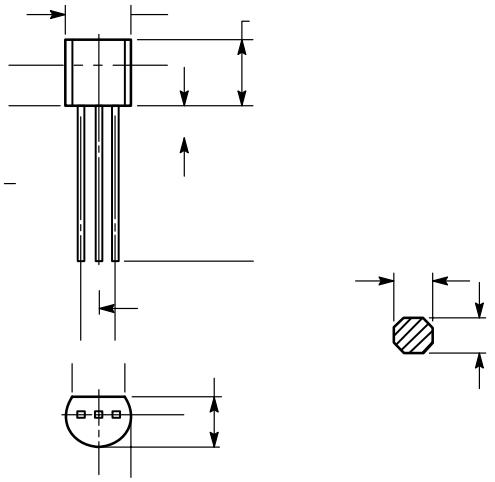
Figure 11. Forward Transfer Admittance (y_f)

Figure 12. Output Admittance (y_{op}397049 497. = 25Figure



PACKAGE DIMENSIONS

TO−92 (TO−226)
CASE 29−11
ISSUE AL



NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.
3. CONTOUR OF PACKAGE BEYOND DIMENSION R IS UNCONTROLLED.
4. LEAD DIMENSION IS UNCONTROLLED IN P AND BEYOND DIMENSION K MINIMUM.

Notes

PUBLICATION ORDERING INFORMATION