



**RATINGS**

Limiting values in accordance with the Absolute Maximum System (IEC 134)

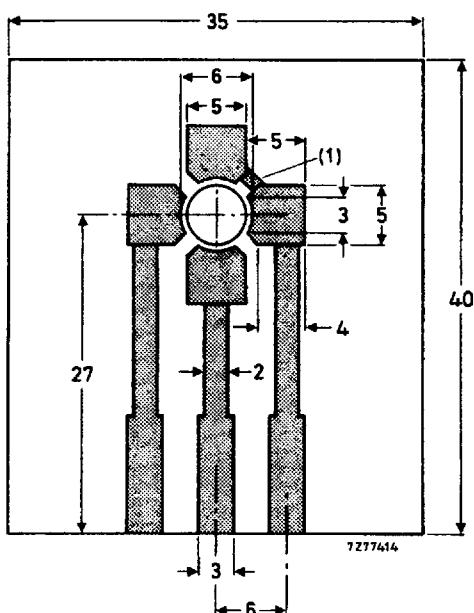
Drain-source voltage	$V_{DS}$	max.	18 V
Drain current (DC or average)	$I_D$	max.	30 mA
Gate 1 - source current	$\pm I_{G1-S}$	max.	10 mA
Gate 2 - source current	$\pm I_{G2-S}$	max.	10 mA
Total power dissipation up to $T_{amb} = 75^\circ\text{C}$	$P_{tot}$	max.	225 mW
Storage temperature range	$T_{stg}$	—	-65 to +150 °C
Junction temperature	$T_j$	max.	150 °C

**THERMAL RESISTANCE**

From junction to ambient in free air  
mounted on the printed-circuit board (see Fig.2)

$$R_{thj-a} = 335 \text{ K/W}$$

Dimensions in mm



(1) Connection made by a strip or Cu wire.

Fig.2 Single-sided 35  $\mu\text{m}$  Cu-clad epoxy fibre-glass printed-circuit board, thickness 1.5 mm. Tracks are fully tin-lead plated. Board in horizontal position for  $R_{th}$  measurement.





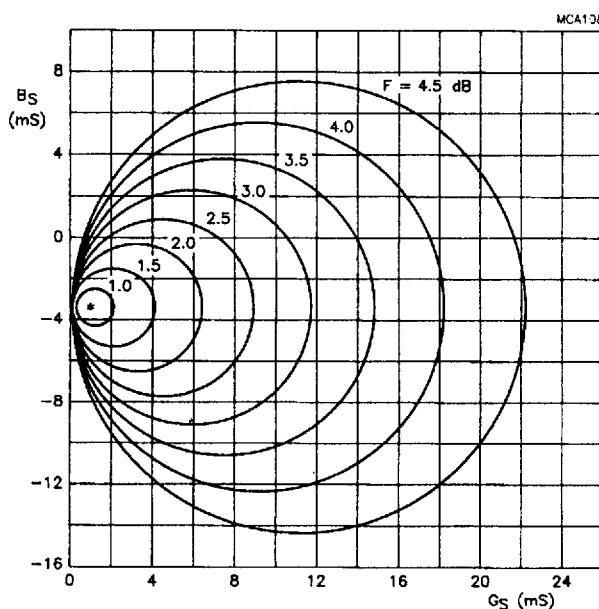


Fig.7 Circles of constant noise figures;  $f = 200$  MHz;  
 $T_{amb} = 25$  °C;  $V_{DS} = 10$  V;  $V_{G2-S} = 4$  V;  $I_D = 10$  mA.

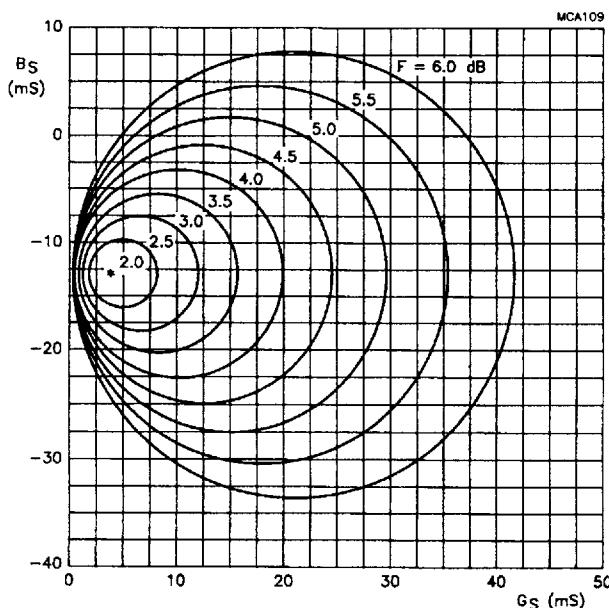


Fig.8 Circles of constant noise figures;  $f = 800$  MHz;  
 $T_{amb} = 25$  °C;  $V_{DS} = 10$  V;  $V_{G2-S} = 4$  V;  $I_D = 10$  mA.

# BF980A

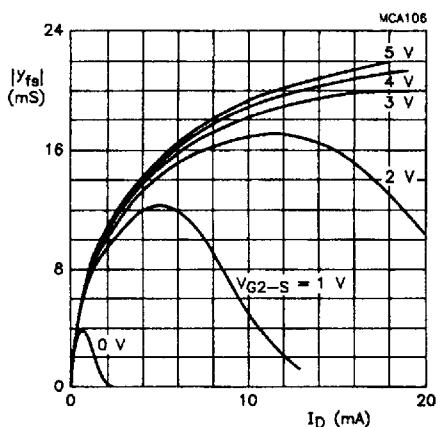


Fig.9 Forward transfer admittance as a function of drain current;  $f = 1$  kHz;  
 $V_{DS} = 10$  V;  $T_{amb} = 25$  °C.

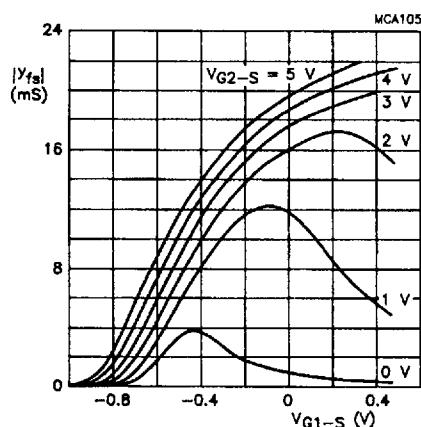


Fig.10 Forward transfer admittance as a function of gate 1 source voltage;  
 $f = 1$  kHz;  $V_{DS} = 10$  V;  $T_{amb} = 25$  °C.