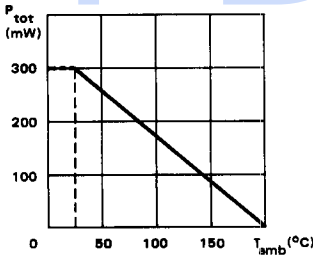


\* Preferred device  
 Dispositif recommandé

- LF amplification  
 Amplification BF

$I_{DSS}$	{	0,5 - 3 mA	2N 4220, A	
		2 - 6 mA	2N 4221, A	
		5 - 15 mA	2N 4222, A	
$Y_{21s}$	{	1 - 4 mS	2N 4220, A	
		2 - 5 mS	2N 4221, A	
		2,5 - 6 mS	2N 4222, A	
F (100 Hz)	5 dB max.	2N 4220 A	2N 4221 A	2N 4222 A

Maximum power dissipation  
 Dissipation de puissance maximale



Case TO-72 - See outline drawing CB-4 on last pages  
 Boîtier Voir dessin coté CB-4 dernières pages



Bottom view  
 Vue de dessous



Weight : 0,7 g.  
 Masse

Connection M is connected to case  
 La connexion M est reliée au boîtier

ABSOLUTE RATINGS (LIMITING VALUES)  
 VALEURS LIMITES ABSOLUES D'UTILISATION

T<sub>amb</sub> = +25°C

(Unless otherwise stated)  
 (Sauf indications contraires)

Drain-source voltage Tension drain-source	$V_{DS}$	30	V
Gate-source voltage Tension grille-source	$V_{GS}$	-30	V
Gate-drain voltage Tension grille-drain	$V_{GD}$	-30	V
Drain current Courant de drain	$I_D$	15	mA
Gate current Courant de grille	$I_G$	10	mA
Power dissipation Dissipation de puissance	$P_{tot}$	300	mW
Storage temperature Température de stockage	min.	-65	°C
	max.	+200	°C

**STATIC CHARACTERISTICS**  
*CARACTERISTIQUES STATIQUES*

$T_{amb} = 25^{\circ}C$

(Unless otherwise stated)  
(*Sauf indications contraires*)

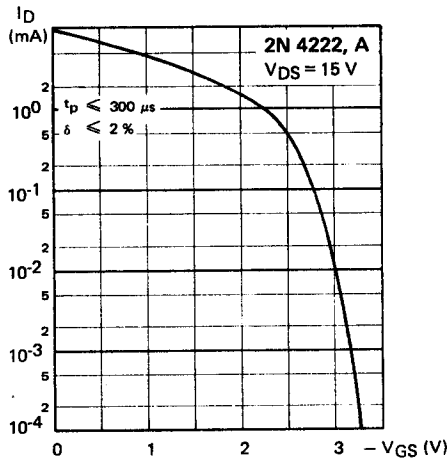
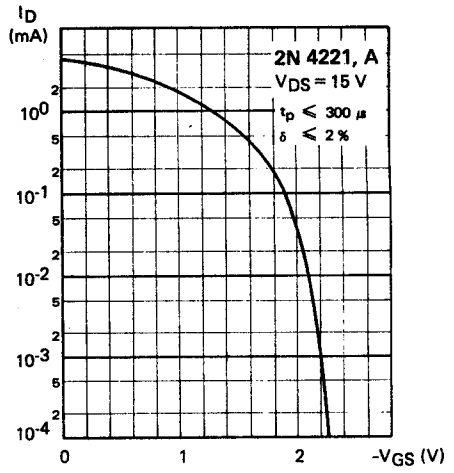
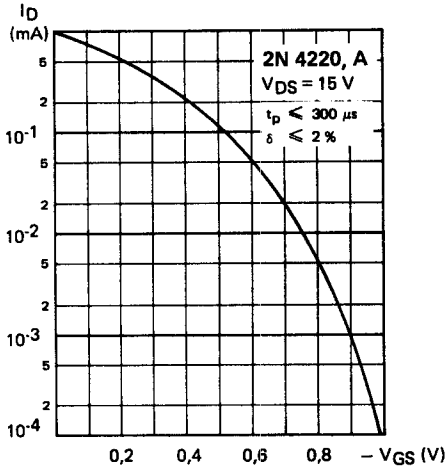
	Test conditions <i>Conditions de mesure</i>			Min.	Typ.	Max.	
Total gate leakage current <i>Courant de fuite total de grille</i>	$V_{DS} = 0$ $V_{GS} = -15 V$	$I_{GSS}$				-0,1	nA
	$V_{DS} = 0$ $V_{GS} = -15 V$ $T_{amb} = 150^{\circ}C$	$I_{GSS}$				-0,1	$\mu A$
Gate-source breakdown voltage <i>Tension de claquage grille-source</i>	$V_{DS} = 0$ $I_G = -10 \mu A$	$V_{(BR)GSS}$				-30	V
Drain current <i>Courant de drain</i>	$V_{DS} = 15 V$ $V_{GS} = 0$	$I_{DSS}^*$	2N4220,A	0,5	3		mA
			2N4221,A	2	6		mA
			2N4222,A	5	15		mA
Gate-source cut-off voltage <i>Tension grille-source de blocage</i>	$V_{DS} = 15 V$ $I_D = 0,1 nA$	$V_{GS\ off}$	2N4220,A			-4	V
			2N4221,A			-6	V
			2N4222,A			-8	V
Gate-source voltage <i>Tension grille-source</i>	$V_{DS} = 15 V$ $I_D = 50 \mu A$	$V_{GS}$	2N4220,A	-0,5	-2,5		V
			2N4221,A	-1	-5		V
			2N4222,A	-2	-6		V

**DYNAMIC CHARACTERISTICS (for small signals)**  
*CARACTERISTIQUES DYNAMIQUES (pour petits signaux)*

Input capacitance <i>Capacit� d'entr�e</i>	$V_{DS} = 15 V$ $V_{GS} = 0$ $f = 1 MHz$	$C_{11ss}$				6	pF
Reverse transfer capacitance <i>Capacit� de transfert inverse</i>	$V_{DS} = 15 V$ $V_{GS} = 0$ $f = 1 MHz$	$C_{12ss}$				2	pF
Forward transfer admittance <i>Admittance de transfert direct</i>	$V_{DS} = 15 V$ $V_{GS} = 0$ $f = 1 kHz$	$ Y_{21s} $	2N4220,A 2N4221,A 2N4222,A	1 2 2,5	4 5 6		mS mS mS
Output admittance <i>Admittance de sortie</i>	$V_{DS} = 15 V$ $V_{GS} = 0$ $f = 1 kHz$	$ Y_{22s} $	2N4220,A 2N4221,A 2N4222,A		10 20 40		$\mu S$ $\mu S$ $\mu S$
Noise figure <i>Facteur de bruit</i>	$V_{DS} = 15 V$ $V_{GS} = 0$ $R_G = 1 M\Omega$ $f = 100 Hz$ $\Delta f = 10 Hz$	F	2N4220 A 2N4221 A 2N4222 A		2,5		dB

\* Pulsed  
*Impulsions*  $t_p \leq 300 \mu s$ .  $\delta \leq 2 \%$

STATIC CHARACTERISTICS  
 CARACTÉRISTIQUES STATIQUES



DYNAMIC CHARACTERISTICS  
 CARACTÉRISTIQUES DYNAMIQUES

