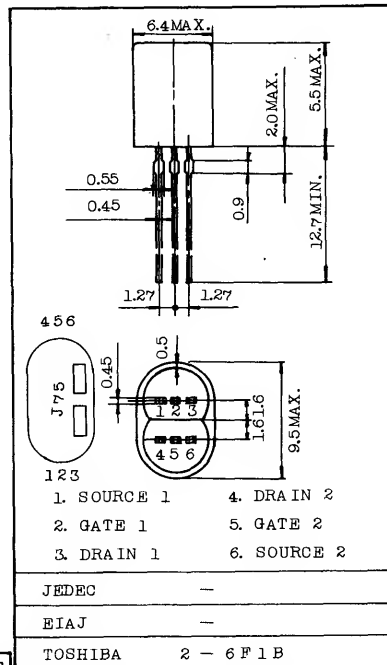


LOW NOISE AUDIO AMPLIFIER APPLICATIONS.
DIFFERENTIAL AMPLIFIER APPLICATIONS.

Unit : mm

FEATURES:

- Recommended for first stages of EQ Amplifiers.
- High $|y_{fs}|$: $|y_{fs}|=22\text{mS}(\text{Typ.})$
- Excellent Pair Characteristics
: $|V_{CS1} - V_{CS2}| = 20\text{mV}(\text{Max.})$
($V_{DS}=-10\text{V}$, $I_D=-1\text{mA}$)
- Low Noise : $e_n = 0.95\text{nV}/\sqrt{\text{Hz}}(\text{Typ.})$
($V_{DS} = -10\text{V}$, $I_D = -1\text{mA}$, $f = 1\text{kHz}$)
- High Input Impedance : $I_{GSS} = 1\text{nA}(\text{Max.})$
($V_{GS}=25\text{V}$)
- Complementary to 2SK240



Weight : 0.72g

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

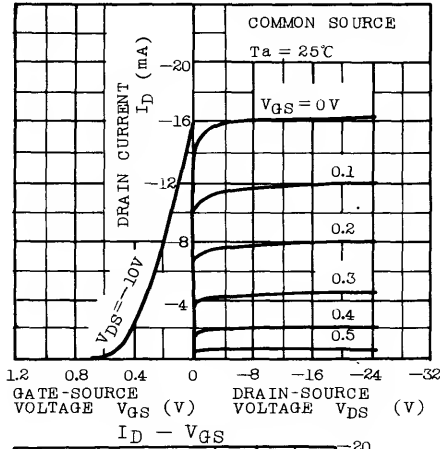
CHARACTERISTIC	SYMBOL	RATING	UNIT
Gate-Drain Voltage	V_{GDS}	25	V
Gate Current	I_G	-10	mA
Drain Power Dissipation	P_D	400×2	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I_{GSS}	$V_{GS}=25\text{V}$, $V_{DS}=0$	-	-	1.0	nA
Gate-Drain Breakdown Voltage	$V_{(BR)GDS}$	$V_{DS}=0$, $I_G=100\mu\text{A}$	25	-	-	V
Drain Current	$I_{DSS}(\text{Note})$	$V_{DS}=-10\text{V}$, $V_{GS}=0$	-2.6	-	-20	mA
Gate-Source Cut-off Voltage	$V_{GS}(\text{OFF})$	$V_{DS}=-10\text{V}$, $I_D=-0.1\mu\text{A}$	0.15	-	2.0	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=-10\text{V}$, $V_{GS}=0$, $f=1\text{kHz}$	15	22	-	mS
Differential Gate-Source Voltage	$ V_{GS1}-V_{GS2} $	$V_{DS}=-10\text{V}$, $I_D=-1\text{mA}$	-	-	20	mV
Input Capacitance	C_{iss}	$V_{DS}=-10\text{V}$, $V_{GS}=0$, $f=1\text{MHz}$	-	105	-	pF
Reverse Transfer Capacitance	C_{rss}	$V_{DG}=-10\text{V}$, $I_D=0$, $f=1\text{MHz}$	-	32	-	pF
Noise Figure	NF(1)	$V_{DS}=-10\text{V}$, $I_D=-1\text{mA}$, $R_g=1\text{k}\Omega$, $f=10\text{Hz}$	-	1.0	10	dB
	NF(2)	$V_{DS}=-10\text{V}$, $I_D=-1\text{mA}$, $R_g=1\text{k}\Omega$, $f=1\text{kHz}$	-	0.5	2	

Note : I_{DSS} Classification GR : $-2.6 \sim -6.5$, BL : $-60 \sim -12$. V : $-10 \sim -20$

STATIC CHARACTERISTIC



$I_D - V_{DS}$ (LOW VOLTAGE REGION)

