

این دیتاشیت توسط توکل الکترونیک تهیه و ارائه شده است.
جهت مشاهده قیمت، موجودی و ثبت سفارش این قطعه به وبسایت توکل الکترونیک مراجعه فرمایید.



مشاهده قیمت و خرید
برای خرید و مشاهده سایر محصولات کلیک کنید



TOSHIBA

2SK184

TOSHIBA Field Effect Transistor Silicon N Channel Junction Type

2SK184

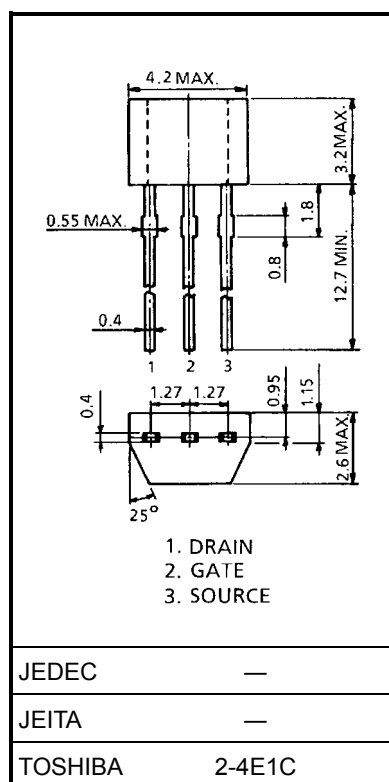
Low Noise Audio Amplifier Applications

Unit: mm

- High $|Y_{fs}|$: $|Y_{fs}| = 15 \text{ mS (typ.)}$ ($V_{DS} = 10 \text{ V}$, $V_{GS} = 0$)
- High breakdown voltage: $V_{GDS} = -50 \text{ V}$
- Low noise: $NF = 1.0\text{dB (typ.)}$
($V_{DS} = 10 \text{ V}$, $I_D = 0.5 \text{ mA}$, $f = 1 \text{ kHz}$, $R_G = 1 \text{ k}\Omega$)
- High input impedance: $I_{GSS} = -1 \text{ nA (max)}$ ($V_{GS} = -30 \text{ V}$)
- Small package

Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Rating	Unit
Gate-drain voltage	V_{GDS}	-50	V
Gate current	I_G	10	mA
Drain power dissipation	P_D	200	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55~125	$^\circ\text{C}$

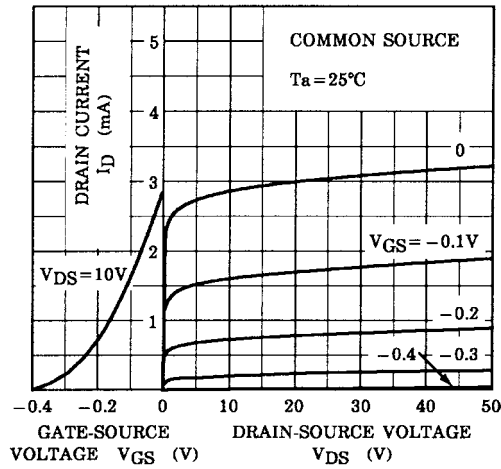
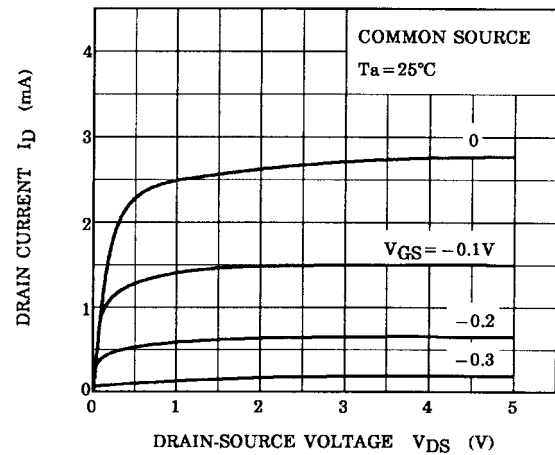
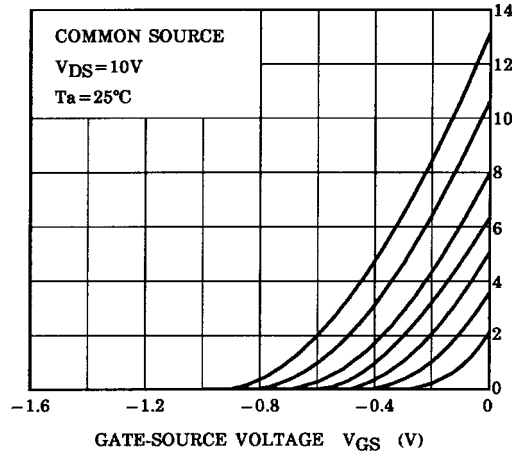
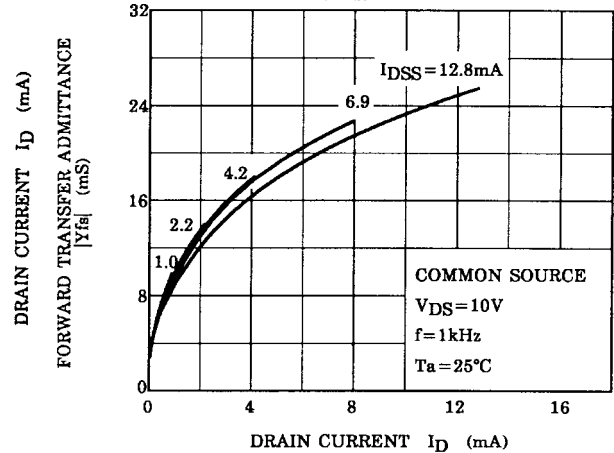
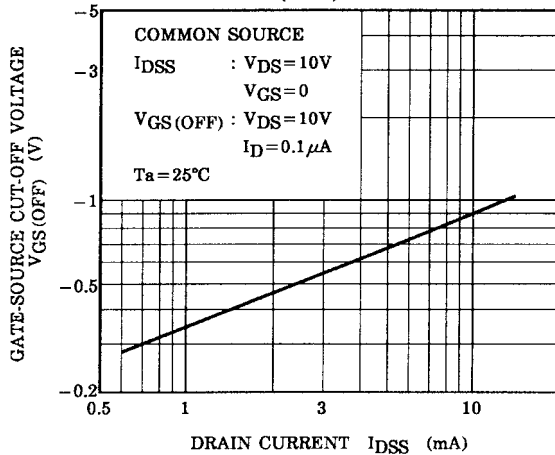
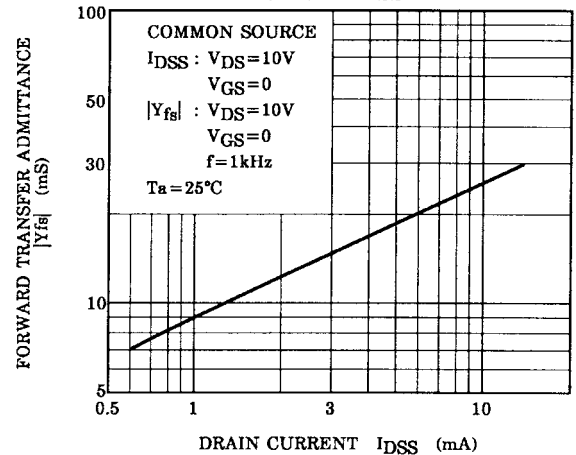
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

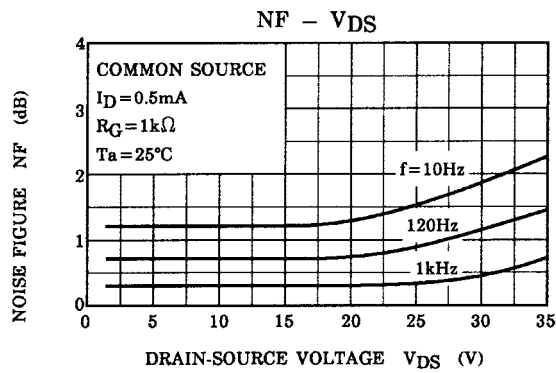
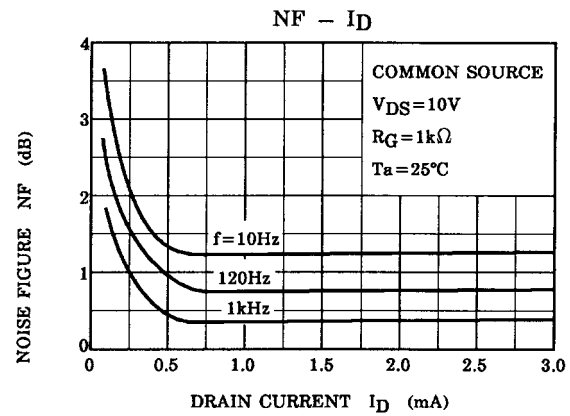
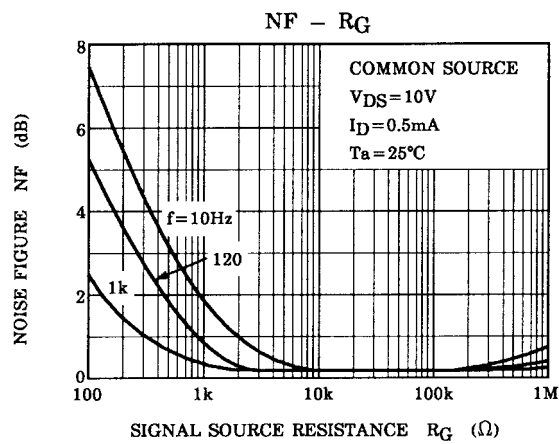
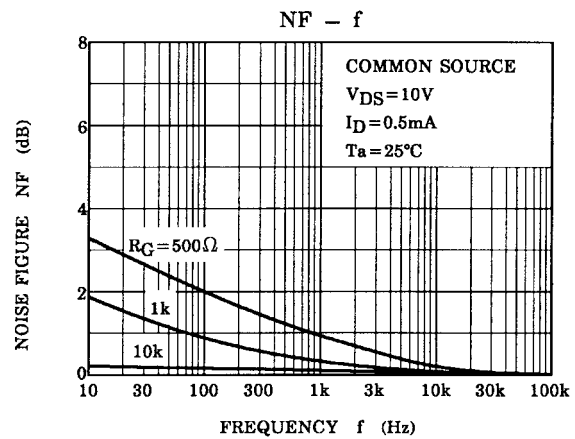
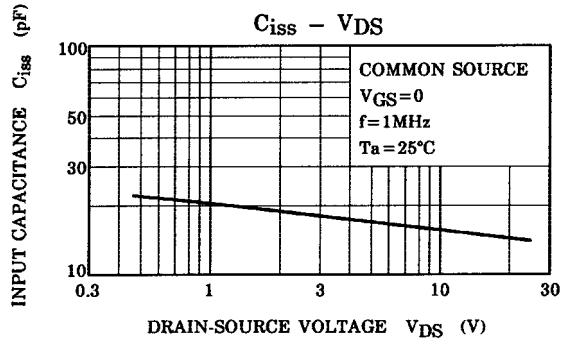
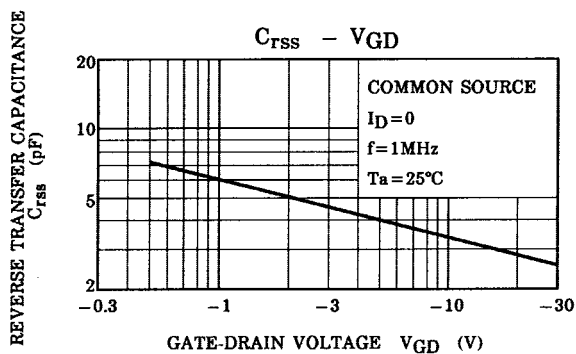
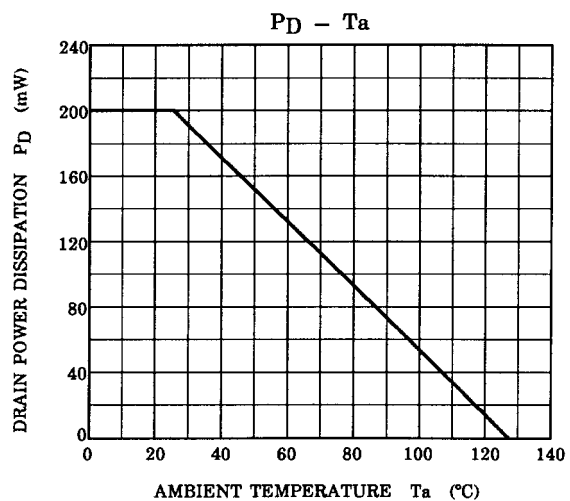
Weight: 0.13 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Gate cut-off current	I_{GSS}	$V_{GS} = -30 \text{ V}$, $V_{DS} = 0$	—	—	-1.0	nA
Gate-drain breakdown voltage	$V_{(BR)GDS}$	$V_{DS} = 0$, $I_G = -100 \mu\text{A}$	-50	—	—	V
Drain current	I_{DSS} (Note)	$V_{DS} = 10 \text{ V}$, $V_{GS} = 0$	1.2	—	14.0	mA
Gate-source cut-off voltage	$V_{GS(OFF)}$	$V_{DS} = 10 \text{ V}$, $I_D = 0.1 \mu\text{A}$	-0.2	—	-1.5	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS} = 10 \text{ V}$, $V_{GS} = 0$, $f = 1 \text{ kHz}$	4.0	15	—	mS
Input capacitance	C_{iss}	$V_{DS} = 10 \text{ V}$, $V_{GS} = 0$, $f = 1 \text{ MHz}$	—	13	—	pF
Reverse transfer capacitance	C_{rss}	$V_{DG} = 10 \text{ V}$, $I_D = 0$, $f = 1 \text{ MHz}$	—	3	—	pF
Noise figure	NF (1)	$V_{DS} = 10 \text{ V}$, $R_G = 1 \text{ k}\Omega$, $I_D = 0.5 \text{ mA}$, $f = 10 \text{ Hz}$	—	5	10	dB
	NF (2)	$V_{DS} = 10 \text{ V}$, $R_G = 1 \text{ k}\Omega$, $I_D = 0.5 \text{ mA}$, $f = 1 \text{ kHz}$	—	1	2	

Note: I_{DSS} classification Y: 1.2~3.0 mA, GR: 2.6~6.5 mA, BL: 6.0~14.0 mA

STATIC CHARACTERISTICS

 $I_D - V_{DS}$ (LOW VOLTAGE REGION) $I_D - V_{GS}$  $|Y_{fs}| - I_D$  $V_{GS(OFF)} - I_{DSS}$  $|Y_{fs}| - I_{DSS}$ 



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