

KSK123**SI N-CHANNEL JUNCTION FET**

T-29-25

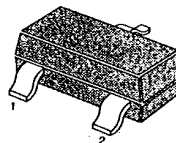
AF IMPEDANCE CONVERTER

- BUILT-IN DIODE BETWEEN G AND S
- LOW NV

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

Characteristic	Symbol	Rating	Unit
Drain Source Voltage	V_{DSO}	20	V
Drain Gate Voltage	V_{DGO}	20	V
Drain Source Current	I_{DSO}	2	mA
Drain Gate Current	I_{DGO}	2	mA
Gate Source Current	I_{GSO}	2	mA
Power Dissipation	P_D	200	mW
Operate Temperature	T_{OPR}	$-20\sim 80$	$^\circ\text{C}$
Storage Temperature	T_{STG}	$-55\sim 100$	$^\circ\text{C}$

SOT-23



1. Base 2. Emitter 3. Collector

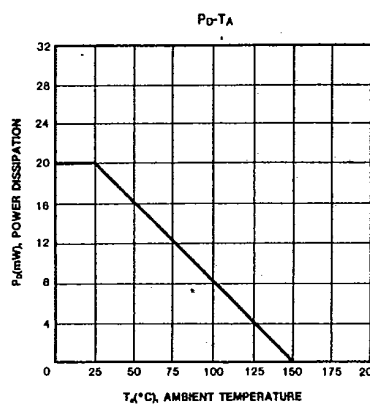
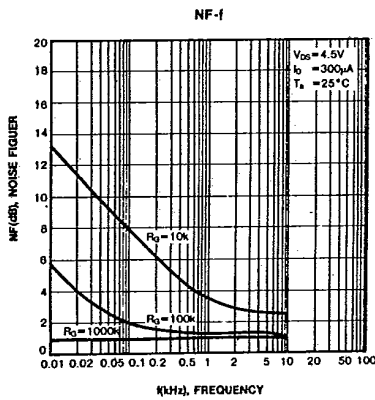
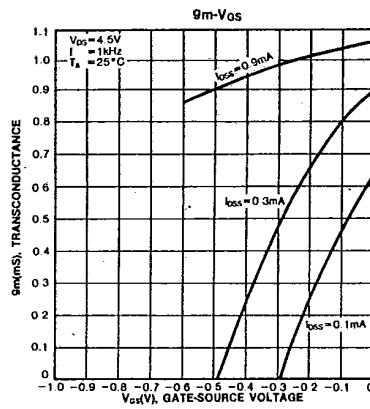
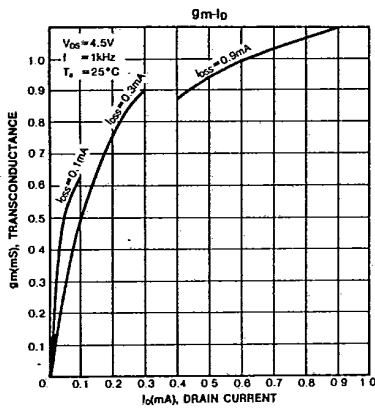
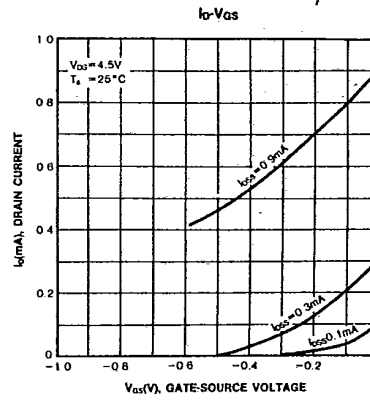
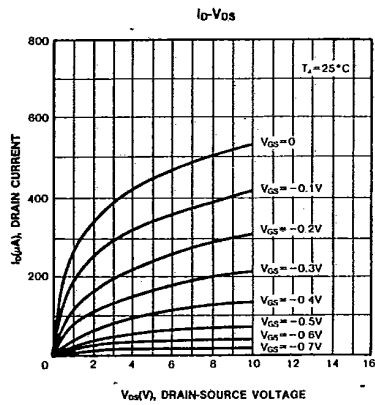
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Drain Current	I_{DS}	$V_{DS}=4.5\text{V}, V_{GS}=0$ $R_S=2.2\text{k}\Omega \pm 1\%$	130	200	470	μA
Transconductance	g_m	$V_{DS}=4.5\text{V}, V_{GS}=0$ $R_S=2.2\text{k}\Omega \pm 1\%$ $f=1\text{kHz}$ $C_G=10\text{pF}$, A curve	0.9	1.6	4	mS μV
Voltage Gain	G_{v1}	$V_{DS}=4.5\text{V}$ $R_S=2.2\text{k}\Omega \pm 1\%$ $C_G=10\text{pF}$, $E_G=10\text{mV}$ $f=70\text{Hz}$	-1			dB
Voltage Gain	G_{v2}	$V_{DS}=12\text{V}$ $R_S=2.2\text{k}\Omega \pm 1\%$ $C_G=10\text{pF}$, $E_G=10\text{mV}$ $f=70\text{Hz}$	0			dB
Voltage Gain	G_{v3}	$V_{DS}=1.5\text{V}$ $R_S=2.2\text{k}\Omega \pm 1\%$ $C_G=10\text{pF}$, $E_G=10\text{mV}$ $f=70\text{Hz}$	-4			dB

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