

UTC 2SK2751

N-CHANNEL JFET

N-CHANNEL JUNCTION FET

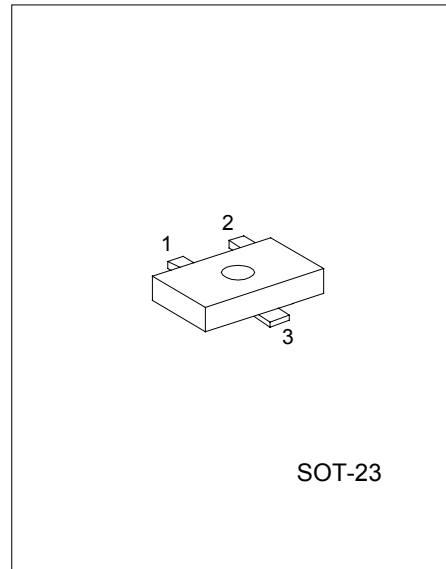
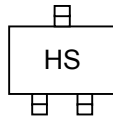
FEATURES

- *Low noise-figure (NF).
- *High gate to drain voltage V_{GDO} .

APPLICATIONS

- *For impedance conversion in low frequency.
- *For pyroelectric sensor.

MARKING SYMBOL



SOT-23

1: DRAIN 2: SOURCE 3: GATE

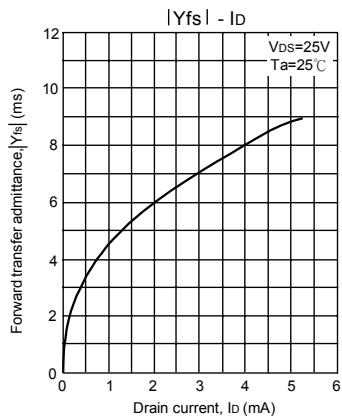
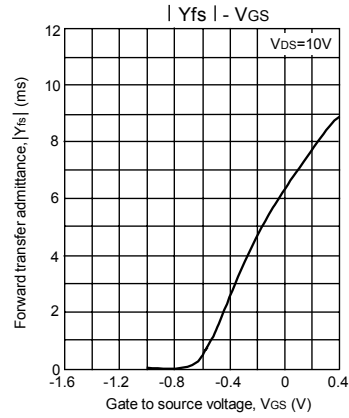
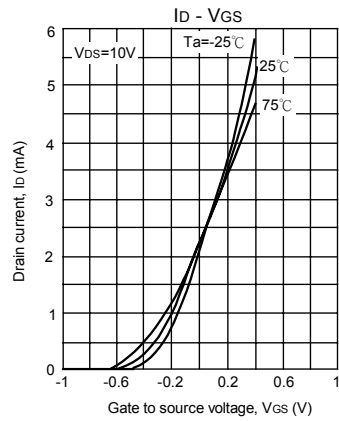
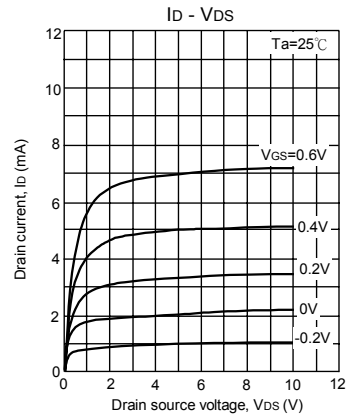
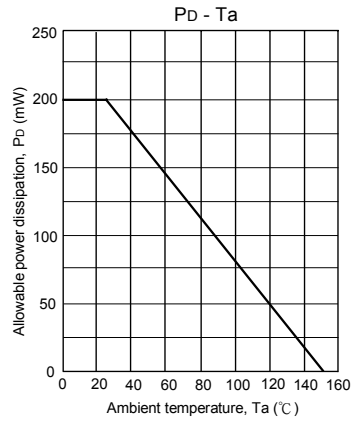
ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Gate to Drain voltage	V_{GDS}	-40	V
Drain current	I_D	10	mA
Gate current	I_G	2	mA
Allowable power dissipation	P_D	200	mW
Channel temperature	T_{ch}	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25±3°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Drain to Source cut-off current	I_{DSS}	$V_{DS}=10V, V_{GS}=0$	1.4		4.7	mA
Gate to Source leakage current	I_{GSS}	$V_{GS}=-20V, V_{DS}=0$			-1	nA
Gate to Drain voltage	V_{GDS}	$I_G=-100 \mu A, V_{DS}=0$	-40			V
Gate to Source cut-off voltage	V_{GSC}	$V_{DS}=10V, I_D=1 \mu A$			-3.5	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS}=10V, V_{GS}=0, f=1kHz$	2.5			mS
Input capacitance (Common Source)	C_{iss}	$V_{DS}=10V, V_{GS}=0, f=1MHz$		5		pF
Output capacitance (Common Source)	C_{oss}			1		pF
Reverse transfer capacitance (Common Source)	C_{rss}			1		pF

TYPICAL CHARSACTERISTICS



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