

# UTC 2SK2751

# N-CHANNEL JFET

## N-CHANNEL JUNCTION FET

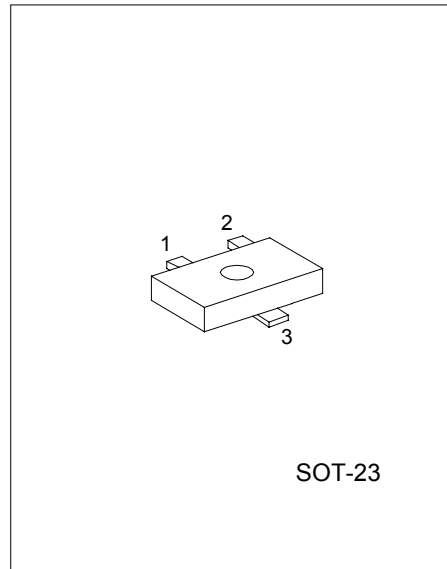
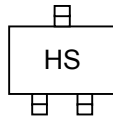
### FEATURES

- \*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

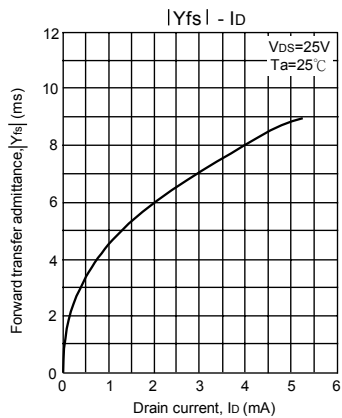
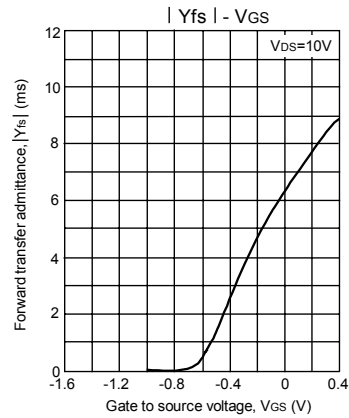
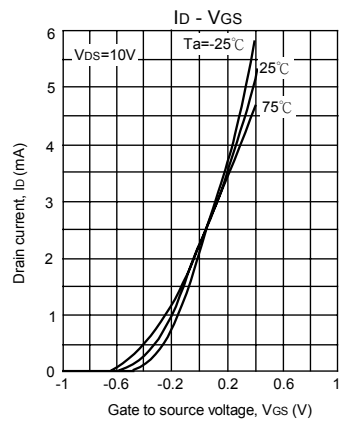
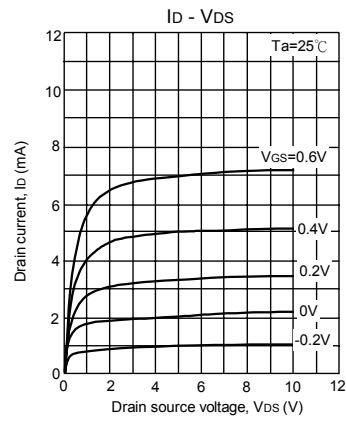
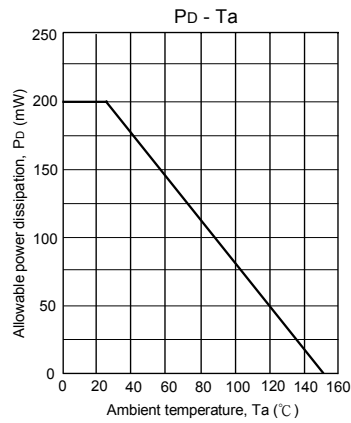
### ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

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 CHARACTERISTICS



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