



2SK2751

N-CHANNEL JFET

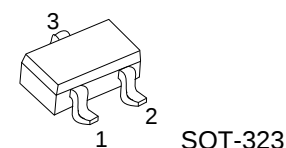
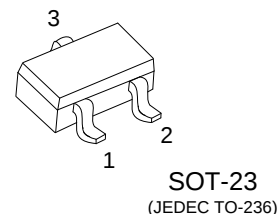
N-CHANNEL JUNCTION FET

■ FEATURES

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

■ APPLICATIONS

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



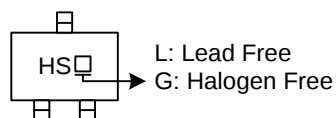
■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SK2751L-AE3-R	2SK2751G-AE3-R	SOT-23	S	D	G	Tape Reel
2SK2751L-AL3-R	2SK2751G-AL3-R	SOT-323	S	D	G	Tape Reel

Note: Pin Assignment: S: Source D: Drain G: Gate

2SK2751G-AE3-R	(1)Packing Type (2)Package Type (3)Green Package	(1) R: Tape Reel (2) AE3: SOT-23, AL3: SOT-323 (3) G: Halogen Free and Lead Free, L: Lead Free
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■ MARKING



■ **ABSOLUTE MAXIMUM RATINGS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

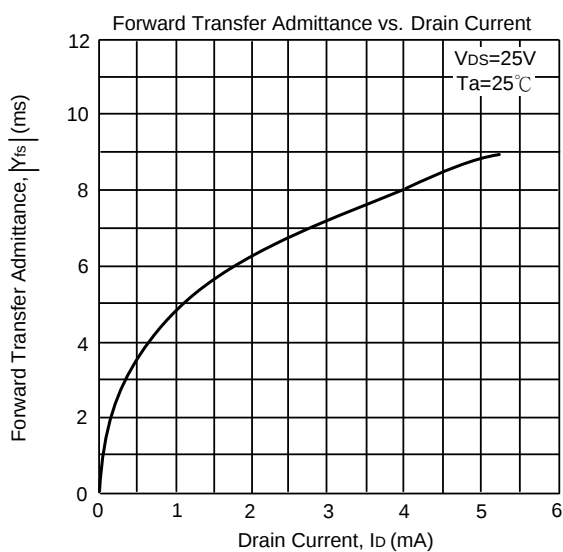
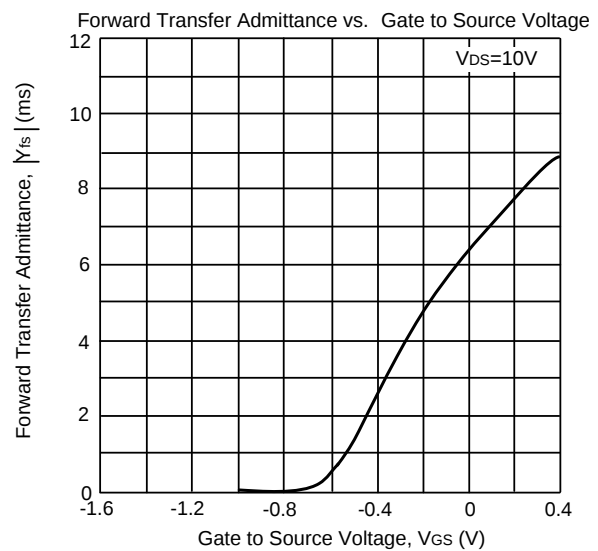
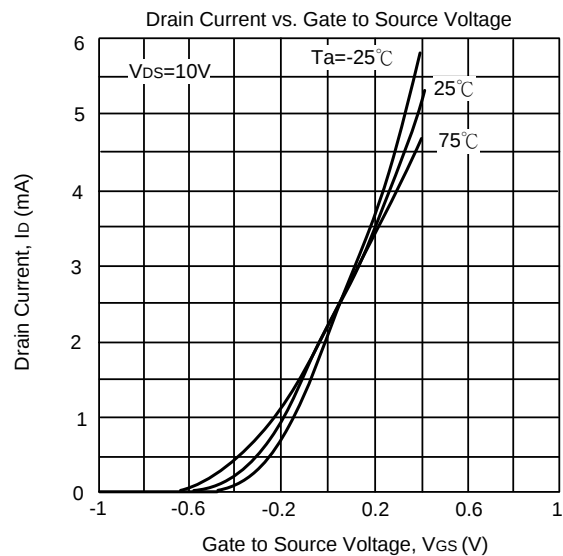
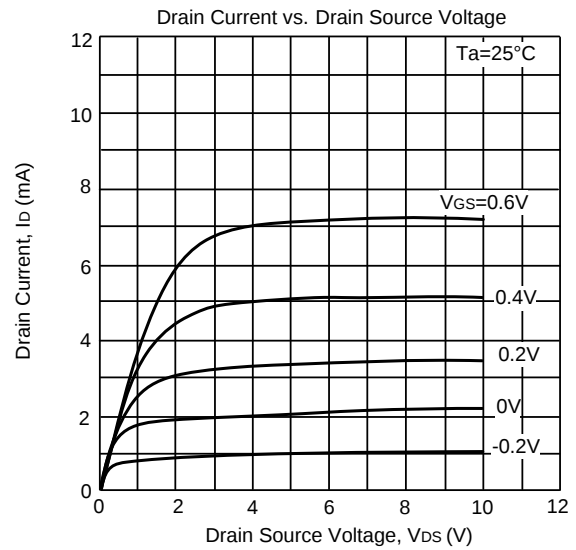
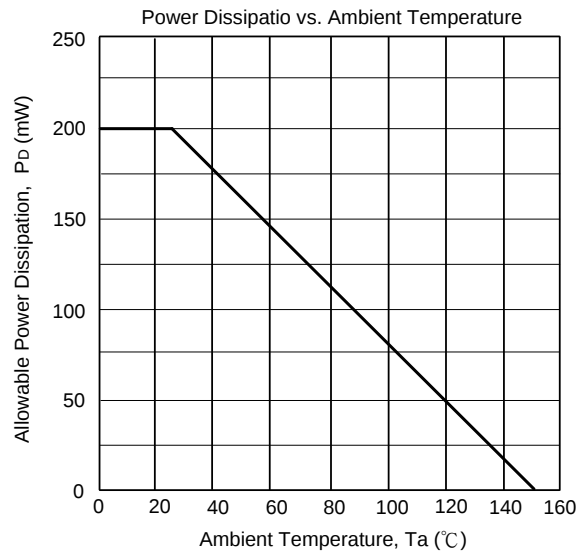
PARAMETER	SYMBOL	RATINGS	UNIT
Gate-Drain Voltage	V_{GDS}	-40	V
Drain Current	I_{D}	10	mA
Gate Current	I_{G}	2	mA
Allowable Power Dissipation	P_{D}	200	mW
Channel Temperature	T_{CH}	+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ **ELECTRICAL CHARACTERISTICS** ($T_A=25\pm 3^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Gate-Drain Voltage	V_{GDS}	$I_{\text{G}}=-100\mu\text{A}$, $V_{\text{DS}}=0$	-40			V
Gate-Source Cut-Off Voltage	V_{GSC}	$V_{\text{DS}}=10\text{V}$, $I_{\text{D}}=1\mu\text{A}$			-3.5	V
Drain-Source Cut-Off Current	I_{DSS}	$V_{\text{DS}}=10\text{V}$, $V_{\text{GS}}=0$	1.4		4.7	mA
Gate-Source Leakage Current	I_{GSS}	$V_{\text{GS}}=-20\text{V}$, $V_{\text{DS}}=0$			-1	nA
Forward Transfer Admittance	$ Y_{\text{fs}} $	$V_{\text{DS}}=10\text{V}$, $V_{\text{GS}}=0$, $f=1\text{kHz}$	2.5			mS
Input Capacitance (Common Source)	C_{ISS}	$V_{\text{DS}}=10\text{V}$, $V_{\text{GS}}=0$, $f=1\text{MHz}$		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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