



2SK2751

N-CHANNEL JFET

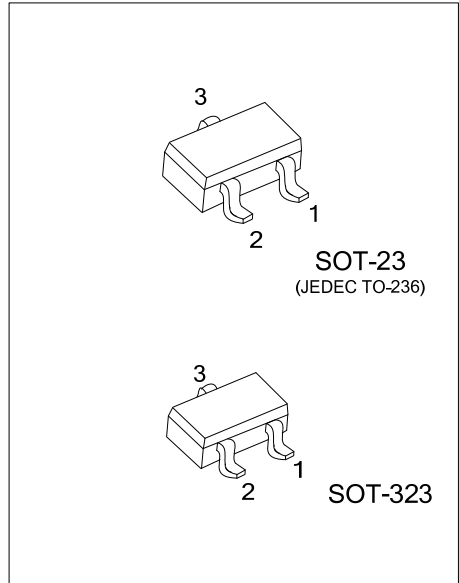
N-CHANNEL JUNCTION FET

FEATURES

- * Low noise-figure (NF).
- * High gate to drain voltage V_{GD0} .

APPLICATIONS

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



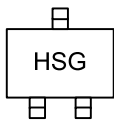
ORDERING INFORMATION

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

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

| | |
|---|---|
| <p>2SK2751G-AE3-R</p> <p>(1)Packing Type (2)Package Type (3)Green Package</p> | <p>(1) R: Tape Reel (2) AE3: SOT-23, AL3: SOT-323 (3) G: Halogen Free and Lead Free</p> |
|---|---|

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 | $^\circ\text{C}$ |

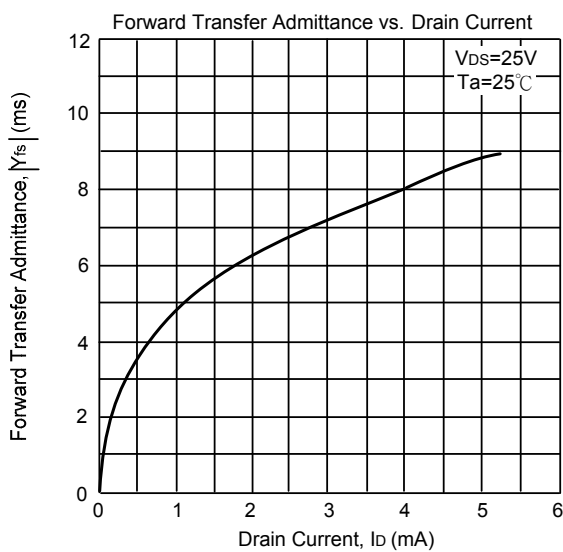
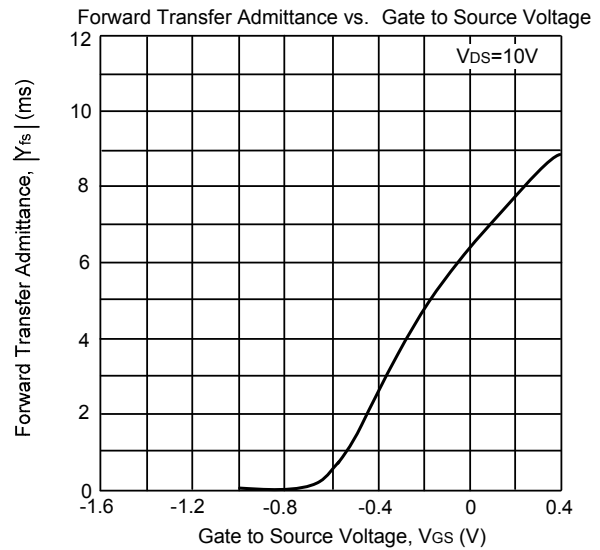
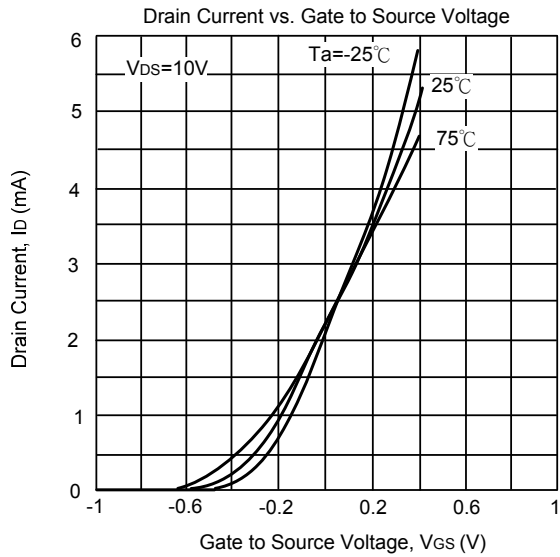
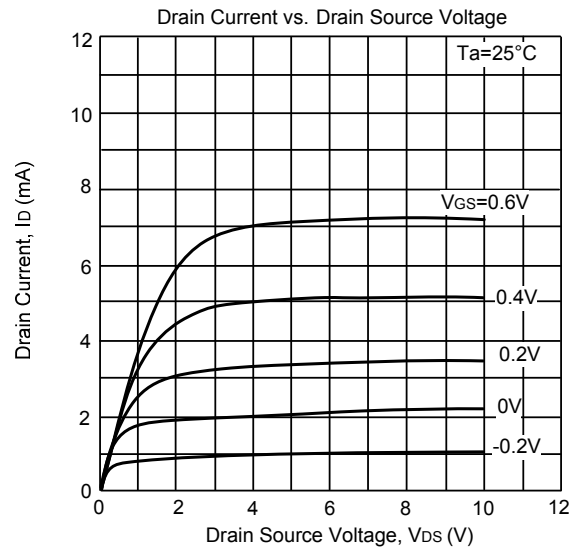
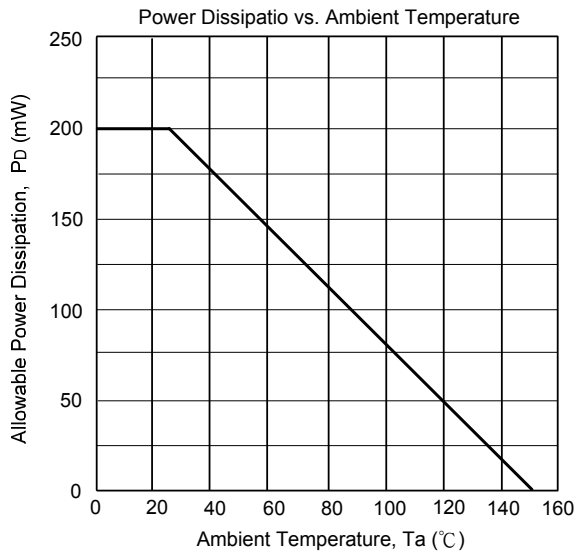
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

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} | $I_G=-100\mu\text{A}$, $V_{DS}=0$ | -40 | | | V |
| Gate-Source Cut-Off Voltage | V_{GSC} | $V_{DS}=10\text{V}$, $I_D=1\mu\text{A}$ | | | -3.5 | V |
| Drain-Source Cut-Off Current | I_{DSS} | $V_{DS}=10\text{V}$, $V_{GS}=0$ | 1.4 | | 4.7 | mA |
| Gate-Source Leakage Current | I_{GSS} | $V_{GS}=-20\text{V}$, $V_{DS}=0$ | | | -1 | nA |
| Forward Transfer Admittance | $ Y_{fs} $ | $V_{DS}=10\text{V}$, $V_{GS}=0$, $f=1\text{kHz}$ | 2.5 | | | mS |
| Input Capacitance (Common Source) | C_{ISS} | $V_{DS}=10\text{V}$, $V_{GS}=0$, $f=1\text{MHz}$ | | 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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