



UK2751A

Advance

N-CHANNEL JFET

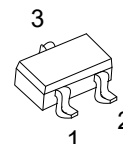
N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

DESCRIPTION

The UTC **UK2751A** is a N-channel junction field effect transistor, and it can be specially used in electronic condenser microphone specially.

FEATURES

- * Low noise-figure (NF)
- * High gate to drain voltage V_{GDO}
- * Good voltage characteristics and transient characteristics



SOT-23
(JEDEC TO-236)

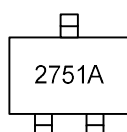
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
UK2751AL-AE3-R	UK2751AG-AE3-R	SOT-23	S	D	G	Tape Reel

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

UK2751AG-AE3-R	(1)Packing Type	(1) R: Tape Reel
	(2)Package Type	(2) AE3: SOT-23
	(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT
Gate-Drain Voltage	V_{GDO}	-35	V
Drain Current	I_D	5	mA
Allowable Power Dissipation ($T_C = 25^\circ\text{C}$)	P_D	200	mW
Operating Temperature	T_{OPR}	0 ~ +85	$^\circ\text{C}$
Storage Temperature	T_{STG}	-40 ~ +105	$^\circ\text{C}$

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** ($T_A = 25^\circ\text{C}$, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
G-D Breakdown Voltage	BV_{GDO}	$V_{DS}=0V, I_G=-100\mu A$	-35			V
Gate Off Voltage	$V_{GS(OFF)}$	$V_{DS}=5V, I_D=1\mu A$	-0.5		-1.0	V
Common Source Forward Trans-conductance.	g_{FS}	$V_{DS}=5V, V_{GS}=0V$	1.0			mS
Drain Current	I_{DSS}	$V_{DS}=5V, V_{GS}=0V$	0.25		1.2	mA
Drain Source Resistance	$R_{DS(ON)}$	$V_{DS}=0.25V, V_{GS}=0V$	500		1600	Ω
Gate Input Resistance	R_{IN}	$V_{DS}=0V, V_{GS}=-15V$	1000		8000 0	Gig- Ω

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