UNISONIC TECHNOLOGIES CO., LTD

UK2751 N-CHANNEL JFET

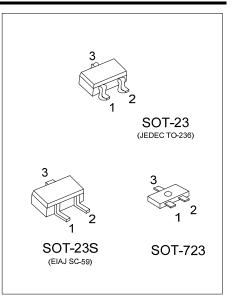
N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

DESCRIPTION

The UTC UK2751 is a N-channel junction field effect transistor, and it can be specially used in electronic condenser microphone specially.

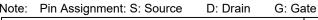
FEATURES

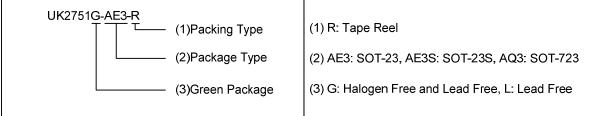
- * Low noise-figure (NF).
- * High gate to drain voltage V_{GDO}.
- * Good voltage characteristics and transient characteristics



ORDERING INFORMATION

Ordering Number		Daakaaa	Pin Assignment			De alcin a	
Lead Free	Halogen Free	Package	1	2	3	Packing	
UK2751L-AE3-R	UK2751G-AE3-R	SOT-23	S	D	G	Tape Reel	
UK2751L-AE3S-R	UK2751G-AE3S-R	SOT-23S	S	D	G	Tape Reel	
UK2751L-AQ3-R	UK2751G-AQ3-R	SOT-723	S	D	G	Tape Reel	





MARKING



www.unisonic.com.tw 1 of 3 UK2751

N-CHANNEL JFET

■ **ABSOLUTE MAXIMUM RATINGS** (T_A=25°C, unless otherwise specified)

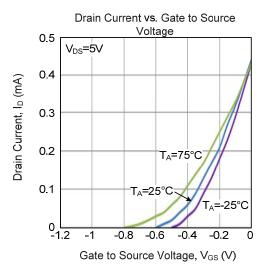
PARAMETER		SYMBOL	RATINGS	UNIT
Gate to Drain Voltage		V_{GDO}	-35	V
Drain Current		I _D	5	mA
Allowable Power Dissipation	SOT-23 SOT-23S	P _D	200	mW
	SOT-723		100	mW
Operating Temperature		T _{OPR}	0 ~ +85	°C
Storage Temperature		T _{STG}	-40 ~ +105	°C

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±3°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
G-D Breakdown Voltage	BV _{GDO}	V _{DS} =0V, I _G =-100uA	-35			V
Gate Off Voltage	V _{GS(OFF)}	V _{DS} =5V, I _D =1uA	-0.65		-0.85	V
Common Source Forward Trans-	a	V _{DS} =5V, V _{GS} =0V	1			mS
conductance.	g FS					
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	Rin	V _{DS} =0V, V _{GS} =-15V	1000		80000	Gig-Ω

■ TYPICAL CHARACTERISTICS (Cont.)



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.