

UNISONIC TECHNOLOGIES CO., LTD

K1875 **Preliminary JFET**

FIELD EFFECT TRANSISTOR SILICON N CHANNEL JUNCTION TYPE

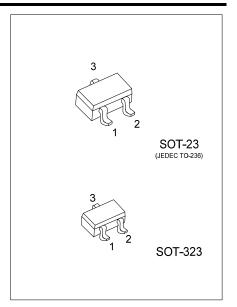
DESCRIPTION

The UTC K1875 is an N-channel JFET, it uses UTC's advanced technology to provide customers low input capacitance and high forward transfer admittance.

The UTC K1875 is suitable for high frequency amplifier and audio frequency amplifier applications, etc.

FEATURES

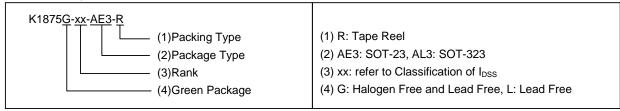
- * High forward transfer admittance
- * Low input capacitance



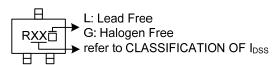
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
K1875L-xx-AE3-R	K1875G-xx-AE3-R	SOT-23	S	D	G	Tape Reel	
K1875L-xx-AL3-R	K1875G-xx-AL3-R	SOT-323	S	D	G	Tape Reel	

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



MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT
Gate-Drain Voltage	V_{GDS}	-20	V
Gate-Current	I_G	10	mA
Drain Power Dissipation	P_D	100	mW
Junction Temperature	ΤJ	+125	Ş
Storage Temperature Range	T _{STG}	-55 ~ +125	Ç

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°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Gate Leakage Current	I _{GSS}	V _{GS} =-15V, V _{DS} =0V			-1.0	nA
Gate-Drain Breakdown Voltage	V _{(BR)GDS}	V _{DS} =0V, I _G =-100μA	-20			V
Drain Current	I _{DSS}	V _{DS} =5V, V _{GS} =0V	6		32	mA
Gate-Source Cut-Off Voltage	V _{GS} (OFF)	$V_{DS}=5V$, $I_{D}=1\mu A$			-2.5	V
Forward Transfer Admittance	Y _{fs}	V _{DS} =5V, V _{GS} =0V, f=1kHz	15	25		mS
Input Capacitance	C _{iss}	V _{DS} =5V, V _{GS} =0V, f=1MHz		7.5	10	pF
Reverse Transfer Capacitance	C _{rss}	V _{DG} =5V, I _D =0V, f=1MHz		2	3	рF

■ CLASSIFICATION OF I_{DSS}

RANK	GR	BL	V
RANGE	6~12	10~20	16~32

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