

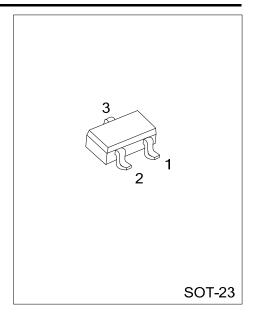
UNISONIC TECHNOLOGIES CO., LTD

2SK303 Preliminary JFET

LOW-FREQUENCY GENERAL-PURPOSE AMPLIFIER APPLICATIONS

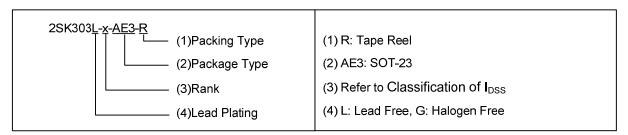
■ FEATURES

- * Ideal For Potentiometers
- * Analog Switches
- * Low Frequency Amplifiers
- * Constant Current Supplies
- * Impedance Conversion
- * Halogen Free



■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Docking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SK303L-x-AE3-R	2SK303G-x-AE3-R	SOT-23	D	S	G	Tape Reel	



■ MARKING

2SK303-V2	2SK303-V3	2SK303-V4	2SK303-V5	
L: Lead Free G: Halogen Free				

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

PARAMETER	SYMBOL	RATINGS	UNIT
Drain to Source Voltage	V_{DSS}	30	V
Gate to Source Voltage	V_{GSS}	-30	V
Gate Current	I_{G}	10	mA
Drain Current	I _D	20	mA
Allowable Power Dissipation	P_{D}	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T_{STG}	-55 ~ +150	°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°C, unless otherwise specified)

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PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT		
OFF CHARACTERISTICS								
Gate to Drain Breakdown Voltage	BV_{GDS}	I _G =-10μA	-30			V		
Drain-Source Leakage Current	I _{DSS}	V _{DS} =10V,V _{GS} =0V	0.6		12.0	mΑ		
Gate-Source Leakage Current	I _{GSS}	SSS V _{GS} =-20V			-1.0	nΑ		
ON CHARACTERISTICS								
Gate Cutoff Voltage	$V_{GS(OFF)}$	V_{DS} =10V, I_D =1 μ A		-1	-4	V		
Drain-Source On-State Resistance	R _{DS(ON)}	V _{DS} =10mV, V _{GS} =0V		250		Ω		
Forward Transfer Admittance	Y _{FS}	V _{DS} =10V, V _{GS} =0V, f =1MHz	2.5	6.0		mS		
DYNAMIC PARAMETERS								
Input Capacitance	C _{ISS}	\/ -10\/\/ -0\/f-1MU-		5		pF		
Reverse Transfer Capacitance	C _{RSS}	V_{DS} =10V, V_{GS} =0V,f =1MHz		1.5		pF		

■ CLASSIFICATION OF I_{DSS}

RANK	V2	V3	V4	V5
I _{DSS} (mA)	0.6 ~ 1.5	1.2 ~ 3.0	2.5 ~ 6.0	5.0 ~ 12.0

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