

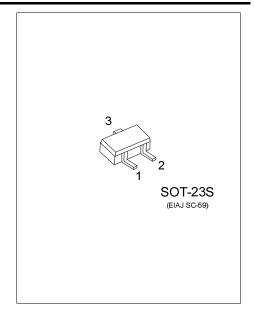
UNISONIC TECHNOLOGIES CO., LTD

2SK302 *JFET*

LOW-FREQUENCY GENERAL-PURPOSE AMPLIFIER APPLICATIONS

■ FEATURES

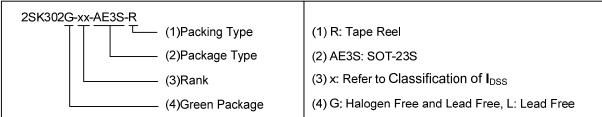
- * Ideal For Potentiometers
- * Analog Switches
- * Low Frequency Amplifiers
- * Constant Current Supplies
- * Impedance Conversion



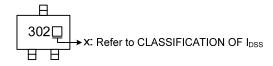
■ ORDERING INFORMATION

Ordering	Ordering Number		Pin Assignment		Doolsing		
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SK302L-xx-AE3S-R	2SK302G-xx-AE3S-R	SOT-23S	S	D	G	Tape Reel	





■ MARKING



2SK302 JFET

■ **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	l _G	10	mA
Drain Current	I _D	20	mA
Power Dissipation	P_{D}	200	mW
Junction Temperature	T_J	+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.

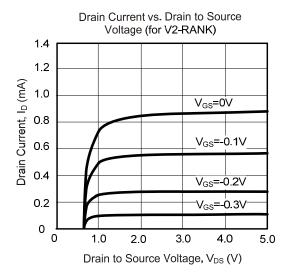
■ ELECTRICAL CHARACTERISTICS (T_A =25°C, unless otherwise specified)

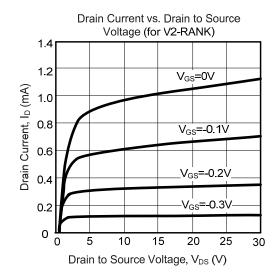
		a.				
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
OFF CHARACTERISTICS	_					
Gate to Drain Breakdown Voltage	BV _{GDS}	I _G =-10μA	-30			V
Drain-Source Leakage Current	I _{DSS}	V _{DS} =10V,V _{GS} =0V	0.6		1.6	mA
Gate-Source Leakage Current	I _{GSS}	V _{GS} =-20V			-1.0	nA
ON CHARACTERISTICS						
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-1MLI-		5		pF
Reverse Transfer Capacitance	C _{RSS}	V_{DS} =10V, V_{GS} =0V, f =1MHz		1.5		pF

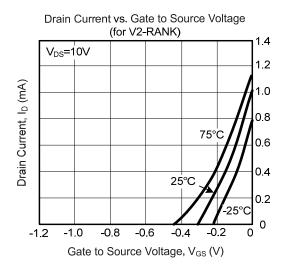
■ CLASSIFICATION OF I_{DSS}

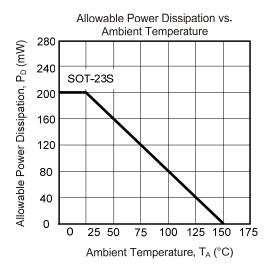
RANK	Α	В	С
I _{DSS} (mA)	0.6 ~ 0.8	0.8 ~ 1.2	1.2 ~ 1.6

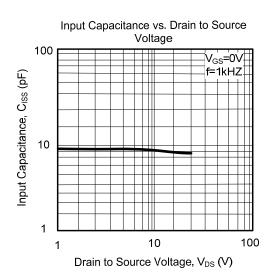
■ TYPICAL CHARACTERISTICS

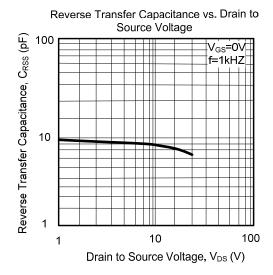












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