



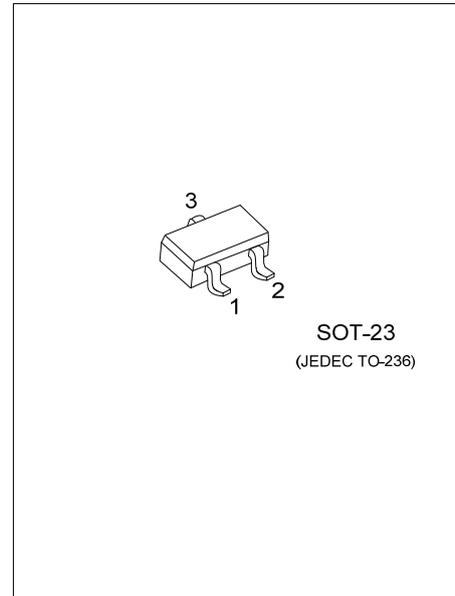
## UJ0100

JFET

### LOW-FREQUENCY GENERAL-PURPOSE AMPLIFIER APPLICATIONS

#### ■ FEATURES

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



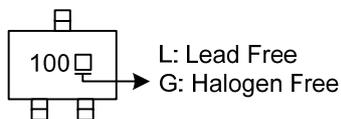
#### ■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
UJ0100L-AE3-R	UJ0100G-AE3-R	SOT-23	S	D	G	Tape Reel

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

<p>UJ0100G-AE3-R</p> <p>(1)Packing Type (2)Package Type (3)Green Package</p>	<p>(1) R: Tape Reel (2) AE3: SOT-23 (3) G: Halogen Free and Lead Free, L: Lead Free</p>
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#### ■ MARKING



■ ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub> =25°C, unless otherwise specified)

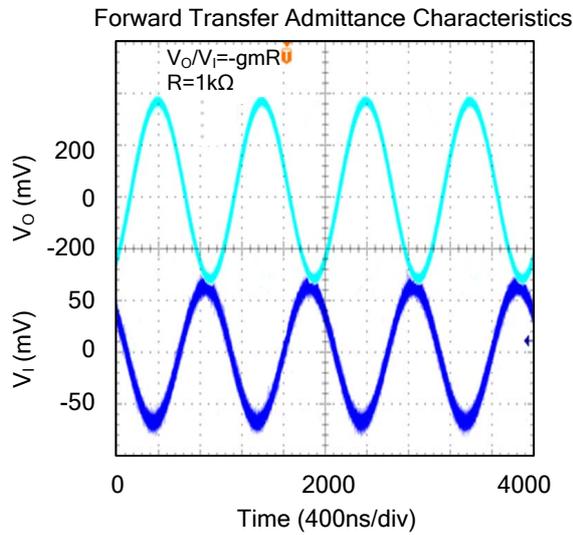
PARAMETER	SYMBOL	RATINGS	UNIT
Drain to Source Voltage	V <sub>DSS</sub>	30	V
Gate to Source Voltage	V <sub>GSS</sub>	-30	V
Gate Current	I <sub>G</sub>	10	mA
Drain Current	I <sub>D</sub>	20	mA
Power Dissipation	P <sub>D</sub>	200	mW
Junction Temperature	T <sub>J</sub>	+150	°C
Storage Temperature	T <sub>STG</sub>	-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<sub>A</sub> =25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
<b>OFF CHARACTERISTICS</b>						
Gate to Drain Breakdown Voltage	BV <sub>GDS</sub>	I <sub>G</sub> =-10μA	-30			V
Drain-Source Leakage Current	I <sub>DSS</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V	0.6		2.5	mA
Gate-Source Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> =-20V			-1.0	nA
<b>ON CHARACTERISTICS</b>						
Gate Cutoff Voltage	V <sub>GS(OFF)</sub>	V <sub>DS</sub> =10V, I <sub>D</sub> =1μA		-1	-4	V
Drain-Source On-State Resistance	R <sub>DS(ON)</sub>	V <sub>DS</sub> =10mV, V <sub>GS</sub> =0V		250		Ω
Forward Transfer Admittance	Y <sub>FS</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V, f =1MHz	2.5	6.0		mS
<b>DYNAMIC PARAMETERS</b>						
Input Capacitance	C <sub>ISS</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V, f =1MHz		5		pF
Reverse Transfer Capacitance	C <sub>RSS</sub>			1.5		pF

■ TYPICAL CHARACTERISTICS



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