2SK508 N-CHANNEL JFET

HIGH FREQUENCY AMPLIFIER N-CHANNEL SILICON JUNCTION FIELD EFFECT TRANSISTOR

■ DESCRIPTION

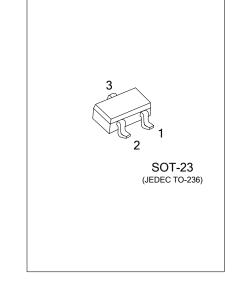
The UTC **2SK508** is NPN transistor with High forward transfer admittance and low input capacitance.

It is suitable for cordless telephone, AM tuner and wireless installation, etc.

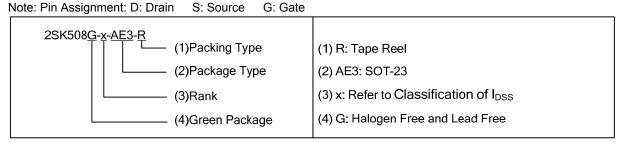
■ FEATURES

- * High forward transfer admittance
- * Low input capacitance

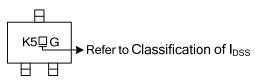
■ ORDERING INFORMATION



Ordering Number	Dookogo	Pin Assignment			Dooking	
Ordering Number	Package	1 2 3	3	Packing		
2SK508G-x-AE3-R	SOT-23	D	S	G	Tape Reel	



■ MARKING



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2SK508 N-CHANNEL JFET

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

PARAMETER	SYMBOL	RATINGS	UNIT
Gate to Drain Voltage	V_{GDO}	-15	V
Gate to Source Voltage	V_{GSO}	-15	V
Drain to Source Voltage (V _{GS} =-4.0 V)	V_{DSX}	15	V
Drain Current (DC)	I_{D}	50	mA
Gate Current (DC)	I_G	5	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)

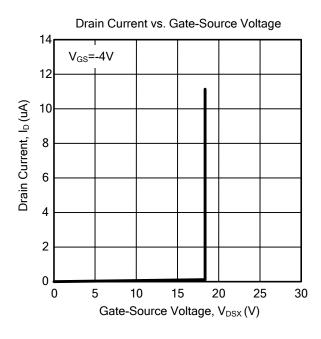
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Gate Cut-Off Current	I _{GSS}	V _{GS} =-10V, V _{DS} =0V			-1.0	nA
Zero Gate Voltage Drain Current (Note)	I _{DSS}	V _{DS} =5.0V, V _{GS} =0V	10	20	50	mA
Gate to Source Cut-Off Voltage	$V_{GS(off)}$	V_{DS} =5.0V, I_{D} =10 μ A	-0.6	-1.4	-3.5	V
Forward Transfer Admittance (Note)	y _{FS} 1	V_{DS} =5.0V, I_D =10mA, f=1.0kHz	14	19		mS
	y _{FS} 2	V _{DS} =5.0V, V _{GS} =0V, f=1.0kHz	14	26		mS
Input Capacitance	C _{ISS}	V _{DS} =5.0V, I _D =10mA, f=1.0MHz		4.8		pF
Feedback Capacitance	C _{RSS}	V _{DS} =5.0V, I _D =10mA, f=1.0MHz		1.6		pF

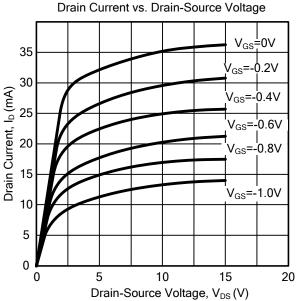
Note: Pulsed: P_W≤1ms, Duty Cycle≤1%.

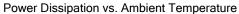
■ I_{DSS} CLASSIFICATION

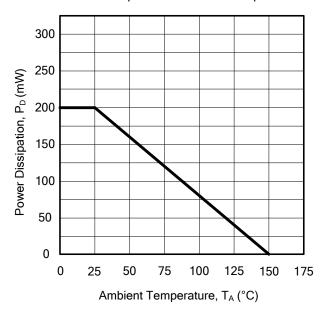
MARKING	K51	K52	K53
I _{DSS} (mA)	10 ~ 20	15 ~ 30	25 ~ 50

■ TYPICAL CHARACTERISTICS









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