

3SK219

Silicon N-Channel 4-pin MOS

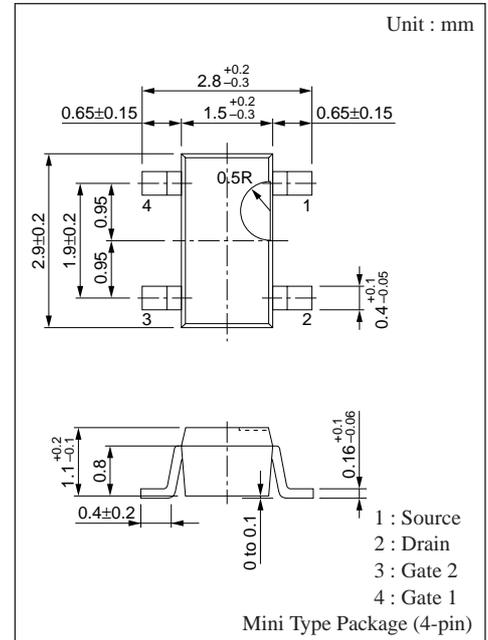
For VHF amplification

■ Features

- Low noise-figure (NF)
- Large power gain PG
- Downsizing of sets by mini power package and automatic insertion by taping/magazine packing are available.

■ Absolute Maximum Ratings (Ta = 25°C)

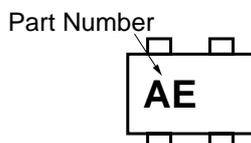
Parameter	Symbol	Rating	Unit
Drain-Source voltage	V_{DS}	15	V
Gate 1-Source voltage	V_{G1S}	± 8	V
Gate 2-Source voltage	V_{G2S}	± 8	V
Drain current	I_D	± 30	mA
Allowable power dissipation	P_D	150	mW
Channel temperature	T_{ch}	150	°C
Storage temperature	T_{stg}	- 55 to +150	°C



■ Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Drain-Source cut-off current	I_{DSS}	$V_{DS}=10V, V_{G1S}=0, V_{G2S}=4V$	0		8	mA
Gate 1 cut-off current	I_{G1SS}	$V_{DS}=V_{G2S}=0, V_{G1S}=\pm 8V$			± 20	nA
Gate 2 cut-off current	I_{G2SS}	$V_{DS}=V_{G1S}=0, V_{G2S}=\pm 8V$			± 20	nA
Drain-Source voltage	V_{DSX}	$I_D=50\mu A, V_{G1S}=-5V, V_{G2S}=0$	15			V
Gate 1-Source cut-off voltage	V_{G1SC}	$V_{DS}=10V, V_{G2S}=4V, I_D=100\mu A$	-1.5		0.5	V
Gate 2-Source cut-off voltage	V_{G2SC}	$V_{DS}=10V, V_{G1S}=4V, I_D=100\mu A$	-1.5		0.5	V
Forward transadmittance	$ Y_{fs} $	$V_{DS}=10V, I_D=10mA, V_{G2S}=4V, f=1kHz$	14	20	26	mS
Input capacitance	C_{iss}	$V_{DS}=10V, V_{G1S}=V_{G2S}=-5V, f=1MHz$	4.4	5	5.8	pF
Output capacitance	C_{oss}		1	1.5	2.2	pF
Feedback capacitance	C_{rss}			0.02		pF
Power gain	PG	$V_{DS}=8V, I_D=8mA, V_{G2S}=3V,$	19	21.5	24	dB
Noise figure	NF	$f=190\text{ to }210MHz(\text{Sweep})$		1.2	2.5	dB

■ Marking





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“Searchdatasheets provides users with one of the Internet’s most complete sources for obsolete datasheets,” said Ariel Zriel, President, Market Maker Systems.

As the life-cycle of components is shortened by the constant demand for faster and better technology, electronics parts are being rendered obsolete at an unprecedented rate. Searchdatasheets gathers and stores the fact sheets, which explain how to use those components.

“Once a component manufacturer decides to eliminate a component datasheet from its web site,” said Zriel, “we take over and list it along with the millions of other datasheets that our users can quickly access.”

Users can perform standard searches for datasheets, or use the cross-reference search option if they want to find a compatible part from another manufacturer.

Searchdatasheets also informs its users when parts are going to become obsolete, providing them with timely product change notification (PCN), product discontinuation notices (PDN) and end of life (EOL) notification.

Searchdatasheets is the only database of its kind that has components engineers onstaff.

That means users can count on assistance from qualified personnel when performing cross-reference searches. Searchdatasheets engineers also regularly research and add and new datasheets to the system.

“We have full-time Engineers on-staff to research and add datasheets if the information is not currently on our site,” said Zriel. “We are providing a place for users to have their questions answered quickly. Our aim is to build a community for components engineers who need help in product design.”

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