

JUNCTION FIELD EFFECT TRANSISTOR 2SK3719

N-CHANNEL SILICON JUNCTION FIELD EFFECT TRANSISTOR FOR IMPEDANCE CONVERTER OF ECM

DESCRIPTION

The 2SK3719 is suitable for converter of ECM.

* FEATURES

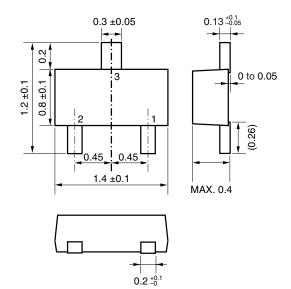
- High gain
 - $-0.5 \text{ dB (V}_{DS} = 2.0 \text{ V, C} = 5 \text{ pF, R}_{L} = 2.2 \text{ k}\Omega)$
- Low noise
 - $-109 \text{ dB (V}_{DS} = 2.0 \text{ V, C} = 5 \text{ pF, RL} = 2.2 \text{ k}\Omega)$
- Super thin thickness package

t = 0.37 mm TYP.

ORDERING INFORMATION

PART NUMBER	PACKAGE
2SK3719	3pXSOF (0814)

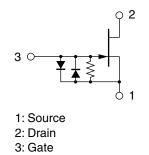
PACKAGE DRAWING (Unit: mm)



* ABSOLUTE MAXIMUM RATINGS (TA = 25°C)

*	Drain to Source Voltage (V _{GS} = -1.0 V)	VDSX	20	V
	Gate to Drain Voltage	V _{GDO}	-20	V
	Drain Current	lσ	10	mA
	Gate Current	lg	10	mA
	Total Power Dissipation	Рт	100	mW
	Junction Temperature	T_j	125	°C
	Storage Temperature	T_{stg}	-55 to +125	°C

EQUIVALENT CIRCUIT



Caution Please take care of ESD (Electro Static Discharge) when you handle the device in this document.

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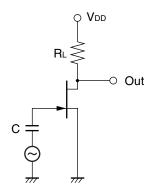
* <u>查询EOFRICAL供应商</u>ACTERISTICS (TA = 25°C)

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CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Zero Gate Voltage Drain Cut-off Current	IDSS	V _{DS} = 2.0 V, V _{GS} = 0 V	90	250	430	μΑ
Gate Cut-off Voltage	V _{GS(off)}	$V_{DS} = 2.0 \text{ V}, I_{D} = 1.0 \mu\text{A}$		-0.37	-1.0	V
Forward Transfer Admittance	y fs1	V_{DS} = 2.0 V, I_{D} = 30 μ A, f = 1.0 kHz	320	470		μS
	y fs2	V _{DS} = 2.0 V, V _{GS} = 0 V, f = 1.0 kHz	800	1600		μS
Input Capacitance	Ciss	V _{DS} = 2.0 V, V _{GS} = 0 V, f = 1.0 MHz		4.0		pF
Voltage Gain	Gv	V_{DD} = 2.0 V, C = 5 pF, R _L = 2.2 k Ω ,		-0.5		dB
		V _{IN} = 10 mV, f = 1 kHz				
Noise Voltage	NV	V_{DD} = 2.0 V, C = 5 pF, R _L = 2.2 k Ω ,		-109		dB
		A-curve				

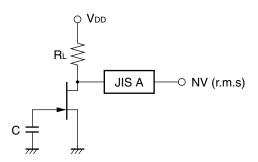
IDSS CLASSIFICATION

MARKING	BE	BF	ВН	BJ
Ibss (µA)	90 to 180	150 to 240	210 to 350	320 to 430

***** GAIN TEST CIRCUIT



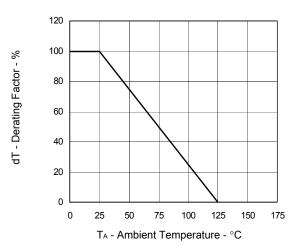
NOISE VOLTAGE TEST CIRCUIT

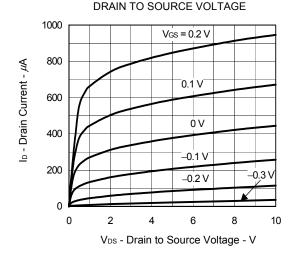


les - Gate to Source Current - µA

查询PACKE7CHARACTERISTICS (TA = 25°C)

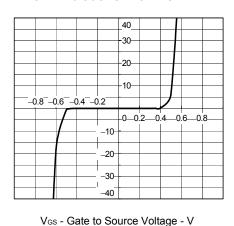
DERATING FACTOR OF POWER DISSIPATION



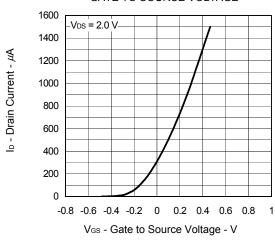


DRAIN CURRENT vs.

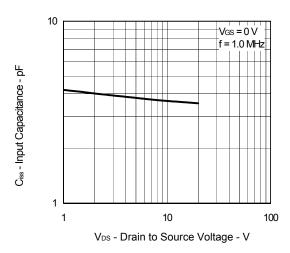
GATE TO SOURCE CURRENT vs. GATE TO SOURCE VOLTAGE



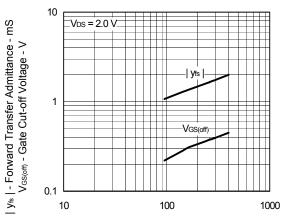
DRAIN CURRENT vs.
GATE TO SOURCE VOLTAGE



INPUT CAPACITANCE vs. DRAIN TO SOURCE VOLTAGE

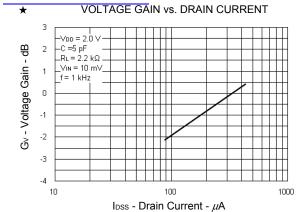


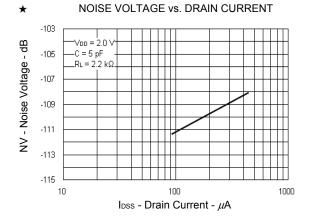
FORWARD TRANSFER ADMITTANCE AND GATE CUT-OFF VOLTAGE vs. ZERO GATE VOLTAGE DRAIN CURRENT



IDSS - Zero Gate Voltage Drain Current - μA

查询"2SK3719"供应商





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