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2SK3372

Silicon N-Channel Junction FET

For impedance conversion in low frequency For electret capacitor microphone

■ Features

- High mutual conductance g_m
- Low noise voltage NV

■ Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Drain-source voltage (Gate open)	V _{DSO}	20	V
Gate-drain voltage (Source open)	V_{GDO}	20	V
Drain-source current (Gate open)	I _{DSO}	2	mA
Gate-drain current (Source open)	I_{GDO}	2	mA
Gate-source current (Drain open)	I_{GSO}	2	mA
Power dissipation	P _D	100	mW
Operating ambient temperature	Topr	-20 to +80	°C
Storage temperature	T _{stg}	-55 to +125	°¢

Package

- Code
 - SSSMini3-F1
 - Pin Name
 - 1: Drain
 - 2: Source
 - 3: Gate

■ Marking Symbol: 1H

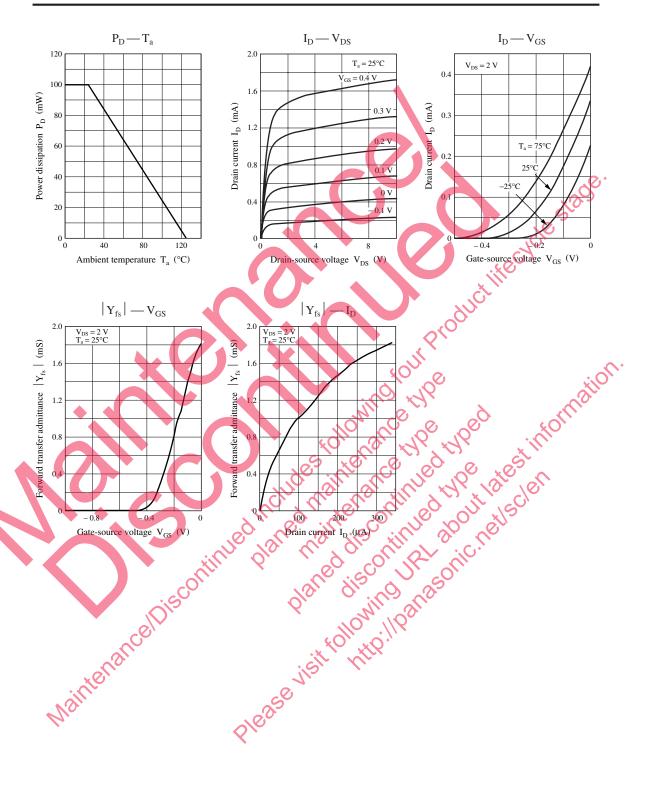
Electrical Characteristics T_a = 25°C ± 3°C

Parameter	Symbol	CI,	Conditions	6	Min	Тур	Max	Unit
Drain current *1	I_D	V_{DS}	2.0 V , $R_D = 2.2 \text{ k}\Omega \pm 1\%$	\ <u>\</u>	100	all's	470	μΑ
Drain-source current	I _{DSS}	$V_{\rm DS} = 2$	$2.0 \text{ V}, R_D = 2.2 \text{ k}\Omega \pm 1\%, V_{GS} =$	=0	107		460	μΑ
Mutual conductance	g _m	$V_D = 2$	2.0 V, $V_{GS} = 0$, $f \neq 1$ kHz	2~	660	1600		μS
Noise voltage	NV	_	$2.0 \text{ V}, R_D = 2.2 \text{ k}\Omega \pm 1\%$	C),		4	μV
			pF, A-Curve	\O_1				
Voltage gain	G_{V1}	l	$1.0 \text{ V, R}_{D} = 2.2 \text{ k}\Omega \pm 1\%$		-7.5	-4.7		dB
		$C_0 = 5$	$pF, e_G = 10 \text{ mV}, f = 1 \text{ kHz}$					
Maintenancell	G_{V2}		2 V, $R_0 = 2.2 \text{ k}\Omega \pm 1\%$		-4.0	-1.5		
		$C_O = 5$	$pF, e_G = 10 \text{ mV}, f = 1 \text{ kHz}$					
LOIN TO THE PARTY OF THE PARTY	G _{V3}	_	$15 \text{ V}, R_D = 2.2 \text{ k}\Omega \pm 1\%$		-8.0	-5.0		
in le		$C_{0} = 5$	$pF, e_G = 10 \text{ mV}, f = 1 \text{ kHz}$					
Nall	$\Delta G_{V}.f ^{*2}$	$\sqrt{3} = 2$	$2.0 \text{ V}, R_D = 2.2 \text{ k}\Omega \pm 1\%$			0	1.7	
H.	2/6	$C_0 = 5$	pF, $e_G = 10 \text{ mV}$, $f = 1 \text{ kHz to } 7$	0 Hz				
Voltage gain difference	$ G_{V2} - G_{V1} $				0		4.0	dB
	$ G_{V1} - G_{V3} $				0		1.7	

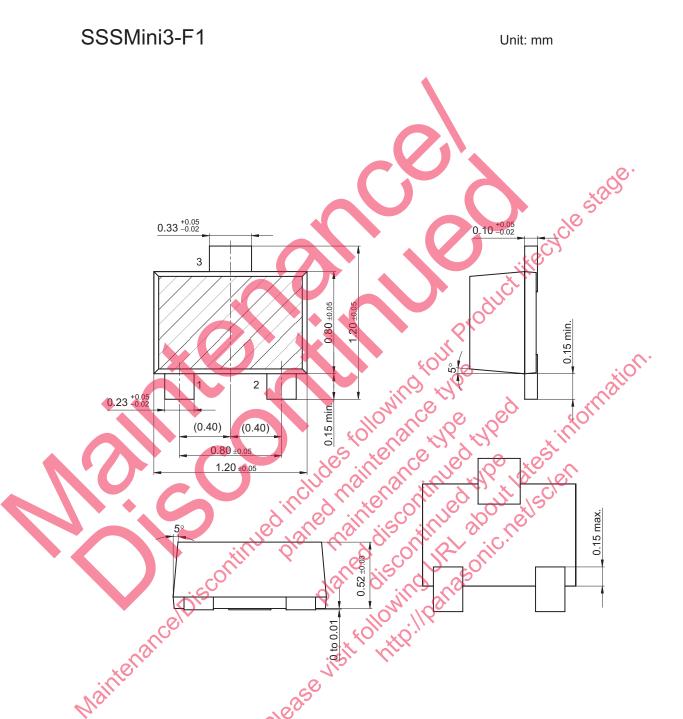
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

^{2. *1:} I_D is assured for I_{DSS}.

^{*2:} $\Delta \mid G_V$. f | is assured for AQL 0.065%. (The measurement method is used by source-grounded circuit.)



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