imall

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Panasonic

2SK3426

Silicon N-Channel Junction FET

For impedance conversion in low frequency For electret capacitor microphone

Features

- \bullet High mutual conductance g_{m}
- Low noise voltage NV

Absolute Maximum Ratings T _a = 25°C							
Parameter	Symbol	Rating	Unit				
Drain-source voltage (Gate open)	V _{DSO}	20	V				
Drain-gate voltage (Source open)	V _{DGO}	20	V				
Drain-source current (Gate open)	I _{DSO}	2	mA				
Drain-gate current (Source open)	I _{DGO}	2	mA				
Gate-source current (Drain open)	I _{GSO}	2	mA				
Power dissipation	P _D	100	mW				
Operating ambient temperature	T _{opr}	-20 to +80	°C				
Storage temperature	T _{stg}	-55 to +125	°C				

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

Marking Symbol: 4E

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain current *1	ID	$V_{DS} = 2.0 \text{ V}, R_D = 2.2 \text{ k}\Omega \pm 1\%$	100	-0/1-	460	μΑ
Drain-source current	I _{DSS}	$V_{DS} = 2.0 \text{ V}, R_D = 2.2 \text{ k}\Omega \pm 1\%, V_{GS} = 0$	107	22	470	μΑ
Mutual conductance	gm	$V_{\rm D} = 2.0 \text{ V}, V_{\rm GS} = 0, f = 1 \text{ kHz}$	660	1 600		μS
Noise voltage	♥ NV	$V_D = 2.0 V, R_D = 2.2 k\Omega \pm 1\%$ $C_O = 5 pF, A-Curve$	S		10	μV
Voltage gain	G _{V1}	$V_D = 2.0 \text{ V}, R_D = 2.2 \text{ k}\Omega \pm 1\%$ $C_O = 5 \text{ pF}, e_G = 10 \text{ mV}, f = 1 \text{ kHz}$	-7.5	-4.7		dB
	G _{V2}	$V_D = 12 V, R_D = 2.2 k\Omega \pm 1\%$ $C_O = 5 pF, e_G = 10 mV, f = 1 kHz$	-4.0	-1.5		
	G _{V3}	$V_D = 1.5 V, R_D = 2.2 k\Omega \pm 1\%$ $C_O = 5 pF, e_G = 10 mV, f = 1 kHz$	-8.0	-5.0		
	$\Delta G_{V}, f ^{*2}$	$V_{\rm D} = 2.0 \text{ V}, R_{\rm D} = 2.2 \text{ k}\Omega \pm 1\%$ $C_{\rm O} = 5 \text{ pF}, e_{\rm G} = 10 \text{ mV}, f = 1 \text{ kHz to } 70 \text{ Hz}$		0	1.7	
Voltage gain difference	G _{V2} - G _{V1}		0		4.0	dB
	G _{V1} - G _{V3}		0		1.7	

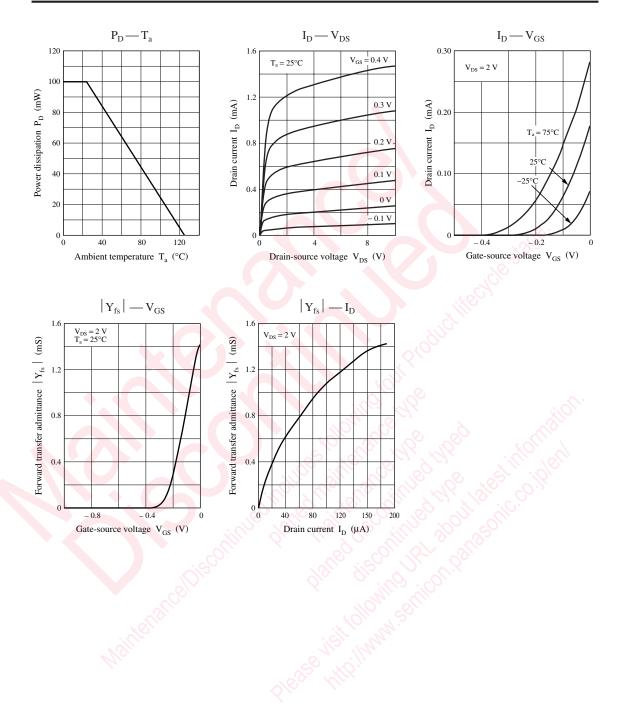
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *1: I_{D} is assured for $I_{\text{DSS}}.$

*2: Δ | G_V. f | is assured for AQL 0.065%. (The measurement method is used by source-grounded circuit.)

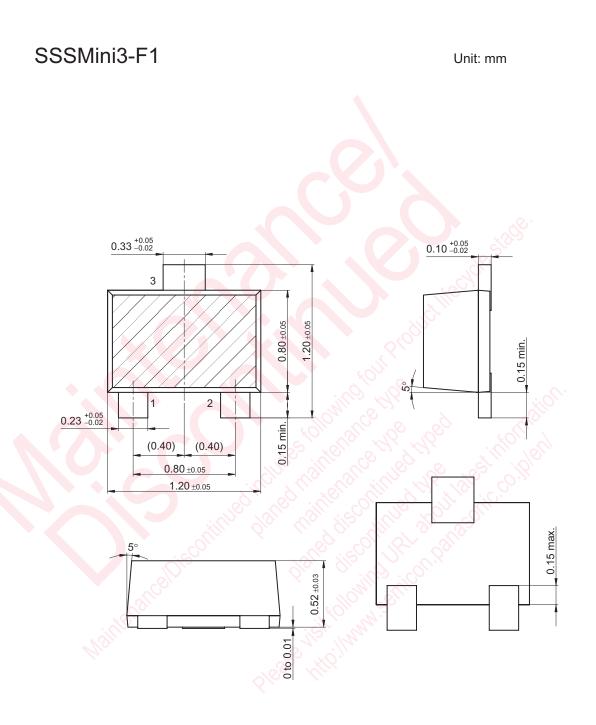
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