DSKTJ04

Silicon N-channel Junction FET

For impedance conversion in low frequency

■ Features

- Low noise voltage NV and high speed stability time
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

Embossed type (Thermo-compression sealing): 10000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol		Unit	
Drain-source voltage (Gate open)	$V_{\rm DSO}$	20	V	
Drain-gate voltage (Souece open)	V _{DGO}	20	V	
Drain-source current (Gate open)	I_{DSO}	2	mA	
Drain-gate current (Souece open)	I_{DGO}	2	mA	
Power dissipation	P_{D}	100	mW	
Operating ambient temperature	T _{opr}	-20 to +80	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

■ Package

• Code

TSSSMini3-F2-B

- Pin Name
 - 1: Drain
 - 2: Source
 - 3: Gate
- Marking Symbol: 8

■ Electrical Characteristics $T_a = 25$ °C±3°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Drain current*1	I_{D}	$V_{DS} = 2.0 \text{ V}, R_d = 2.2 \text{ k}\Omega \pm 1\%$	100		470	μА
Drain-source cutoff current *2	I _{DSS}	$V_{DS} = 2.0 \text{ V}, R_d = 2.2 \text{ k}\Omega \pm 1\%, V_{GS} = 0$	110		460	μА
Forward transfer admittance	Y _{fs}	$V_D = 2.0 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$	660	1500		μS
Noise voltage *3	NV	$V_D = 2.0 \text{ V}, R_d = 2.2 \text{ k}\Omega \pm 1\%,$ $C_O = 5 \text{ pF}, A\text{-curve}$			4	μV
Voltage gain	G _{V1}	$V_D = 2.0 \text{ V}, R_d = 2.2 \text{ k}\Omega \pm 1\%,$ $C_O = 5 \text{ pF}, eG = 10 \text{ mV}, f = 1 \text{ kHz}$	-5.0	-1.0		dB
	G _{V2}	$V_D = 1.5 \text{ V}, R_d = 2.2 \text{ k}\Omega \pm 1\%,$ $C_O = 5 \text{ pF}, eG = 10 \text{ mV}, f = 1 \text{ kHz}$	-7.0	-1.5		dB
	$\Delta G_{V}.f ^{*4}$	$V_D = 2.0 \text{ V}, R_d = 2.2 \text{ k}\Omega \pm 1\%,$ $C_O = 5 \text{ pF}, eG = 10 \text{ mV}, f = 1 \text{ kHz to 70 Hz}$		0	1.7	dB
Voltage gain difference	$ G_{V1}-G_{V2} $		0		2.0	dB

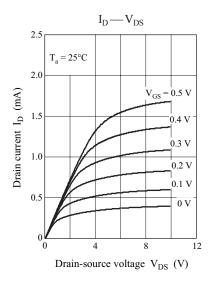
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.
 - 2. A protection diode is built-in between gate and source of transistor. However if forward current flows between gate and source transistor might be damaged. So please be careful not insert reverse.
 - 3. *1: I_D is assured for I_{DSS}.
 - *2: Rank classification

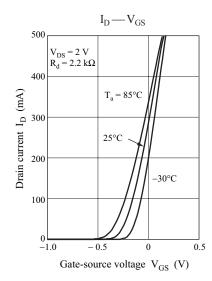
Code	S	Т	U
Rank	S	Т	U
	100 to 220	180 to 320	280 to 470
I _{DSS} (μA)	110 to 210	190 to 310	290 to 460
Marking Symbol	8S	8T	8U

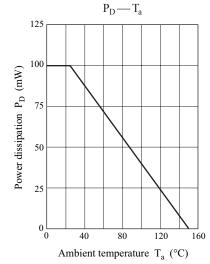
^{*3:} NV is assured for design.

^{*4:} Δ | G_V . f | is assured for AQL 0.065%. (The measurement method is used by source-grounded circuit.)

DSKTJ04 Panasonic



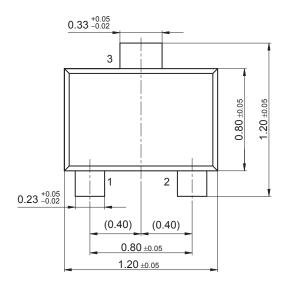


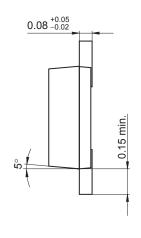


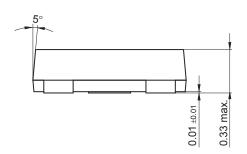
2 Ver. AED

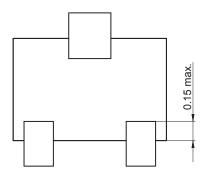
TSSSMini3-F2-B

Unit: mm









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