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DSKTJ08

Silicon N-channel junction FET

For AF impedance converter

Marking Symbol : CT, CU

Package Code : TSSSMINI3-F2-B

Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Rating	Unit
Drain-source voltage(Gate open)	VDSO	20	V
Drain-gate voltage(Source open)	VDGO	20	V
Drain-source current(Gate open)	IDSO	2	mA
Drain-gate current(Source open)	IDGO	2	mA
power dissipation	PD	100	mW
Operating ambient temperature	Topr	-20 to +80	°C
Storage temperature	Tstg	-55 to +150	°C

Pin name	1.	Drain
	2.	Source
	3.	Gate

Electrical Characteristics Ta = 25 °C±3 °C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Drain current ^{*1,*4}	ID	VDD = 2.0 V, Rd = 2.2 kΩ ± 1%	180		470	μA
Drain-source current ^{*4}	IDSS	VDD = 2.0 V, Rd = 2.2 kΩ ± 1%, VGS = 0	190		460	μA
Mutual conductance	gm	VDS = 2.0 V, VGS = 0, f = 1 kHz	660	1 500		μS
Noise voltage ^{*2}	NV	VDD = 2.0 V, Rd = 2.2 kΩ ± 1% Co = 5 pF, A-curve			10	μV
Voltage gain	GV1	VDD = 2.0 V, Rd = 2.2 kΩ ± 1% Co = 5 pF, eG = 10 mV, f = 1 kHz	-5.0	-1.0		dB
	GV2	VDD = 1.5 V, Rd = 2.2 kΩ ± 1% Co = 5 pF, eG = 10 mV, f = 1 kHz	-7.0	-1.5		
Voltage gain difference ^{*3}	Δ GV·f	VDD = 2.0 V, Rd = 2.2 kΩ ± 1% Co = 5 pF, eG = 10 mV f = 1 kHz to 70 Hz		0	1.7	
Voltage gain difference	GV1-GV2		0		2.0	

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 ID is assured for IDSS.

*2 NV is assured for design.

*3 Δ|GV·f| is assured for AQL 0.065. (The measurement method is used by source-grounded circuit.)

*4 Rank classification

Code	T	U
Rank	T	U
ID	180 to 320	280 to 470
IDSS	190 to 310	290 to 460
Marking symbol	CT	CU

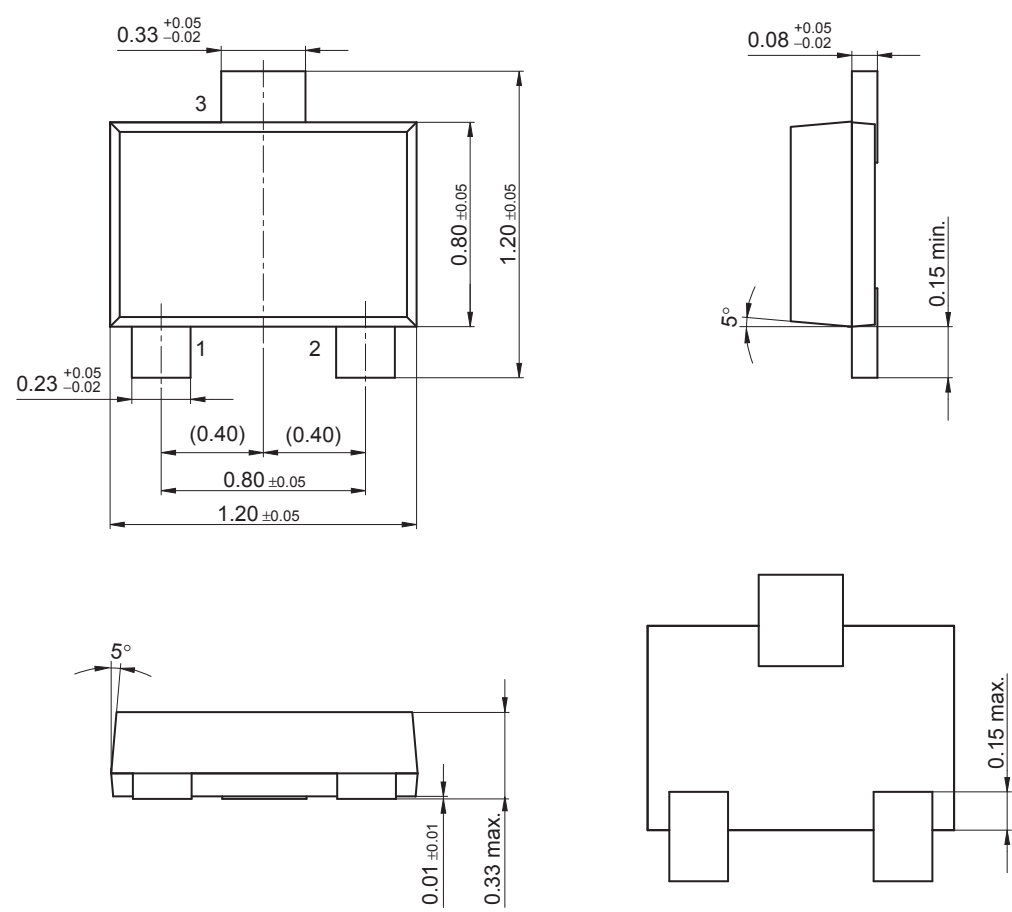
Packing

Embossed type (Thermo-compression sealing) : 10 000 pcs / reel

2010.05.31	2010.7.29	
Prepared	Revised	

TSSSMini3-F2-B

Unit: mm



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