

Panasonic

DSK5J01×0L

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Silicon N-channel Junction FET

For low frequency amplification / For pyroelectric sensor
DSK2J01 in SMini3 type package

■ Features

- High gate-drain Voltage (Source open) V_{GDO}
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

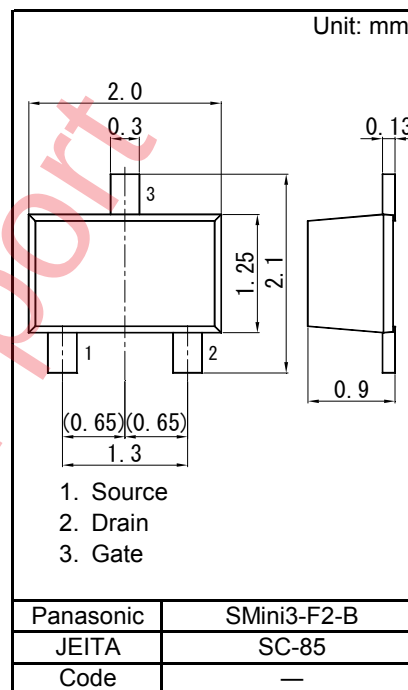
■ Marking Symbol: B6

■ Packaging

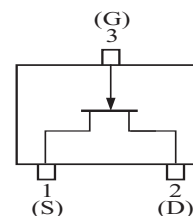
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit
Gate-drain voltage (Source short)	V_{GDS}	-55	V
Drain current	I_D	30	mA
Gate current	I_G	10	mA
Power dissipation	PD	150	mW
Channel temperature	T_{ch}	150	$^{\circ}\text{C}$
Operating ambient temperature	T_{opr}	-40 to +85	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^{\circ}\text{C}$



Internal Connection



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

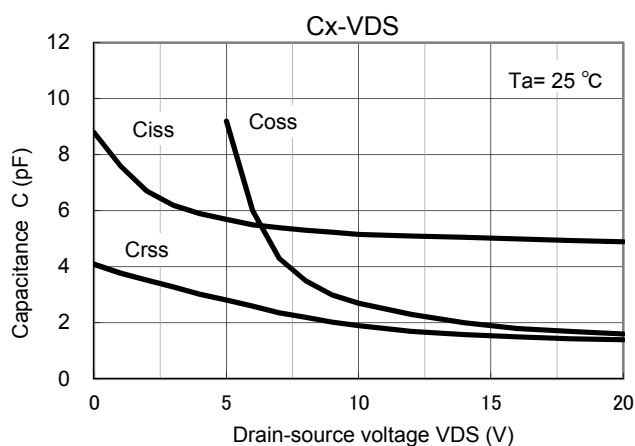
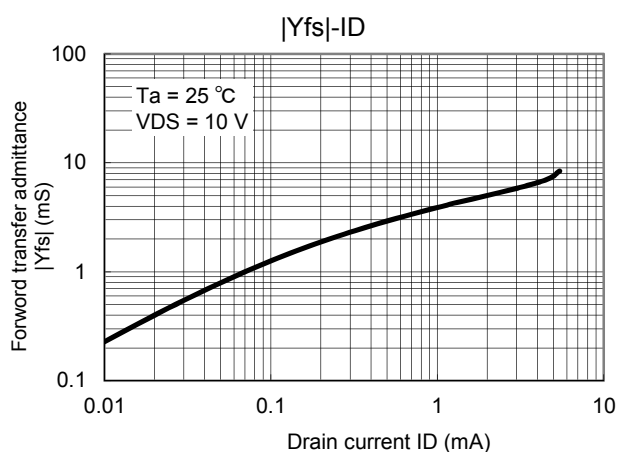
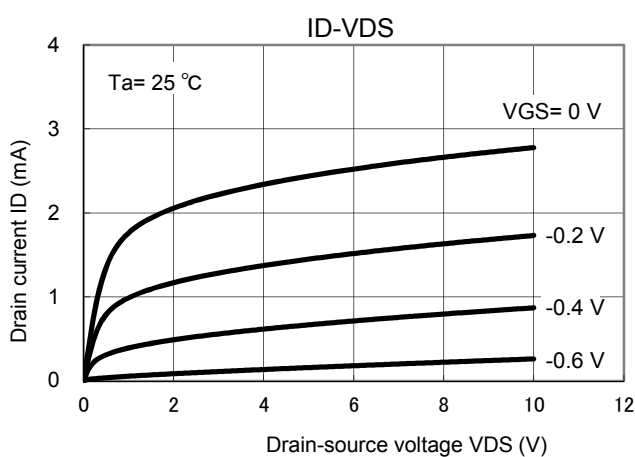
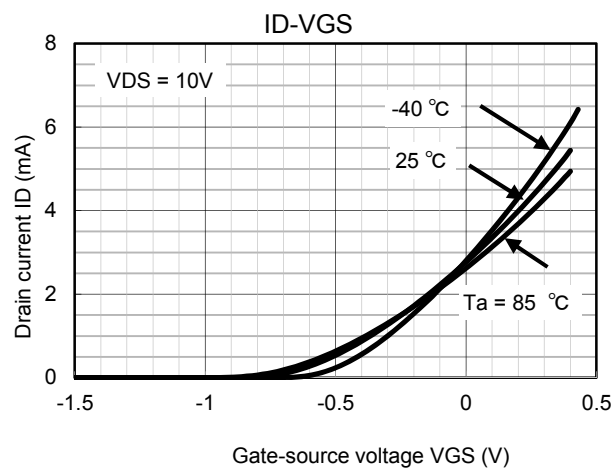
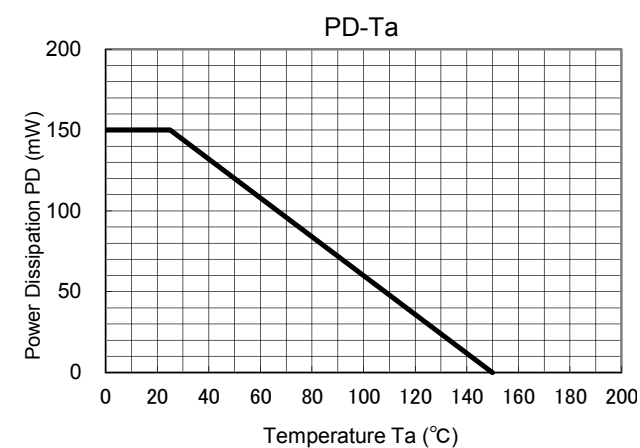
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Gate-drain voltage (Source short)	V_{GDS}	$I_G = -100\text{ }\mu\text{A}$, $V_{DS} = 0$	-55			V
Drain current *1	I_{DSS}	$V_{DS} = 10\text{ V}$, $V_{GS} = 0$	1.0		12.0	mA
Gate-source cutoff current	I_{GSS}	$V_{GS} = -30\text{ V}$, $V_{DS} = 0$			-10	nA
Gate-source cutoff voltage	V_{GSC}	$V_{DS} = 10\text{ V}$, $I_D = 10\text{ }\mu\text{A}$			-5	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS} = 10\text{ V}$, $I_D = 5\text{ mA}$, $f = 1\text{ kHz}$	2.5	7.5		mS
Small-signal short-circuit input capacitance	C_{iss}	$V_{DS} = 10\text{ V}$, $V_{GS} = 0$, $f = 1\text{ MHz}$		6.0		pF
Small-signal reverse transfer capacitance	C_{rss}			2.5		pF

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

*1 Rank classification

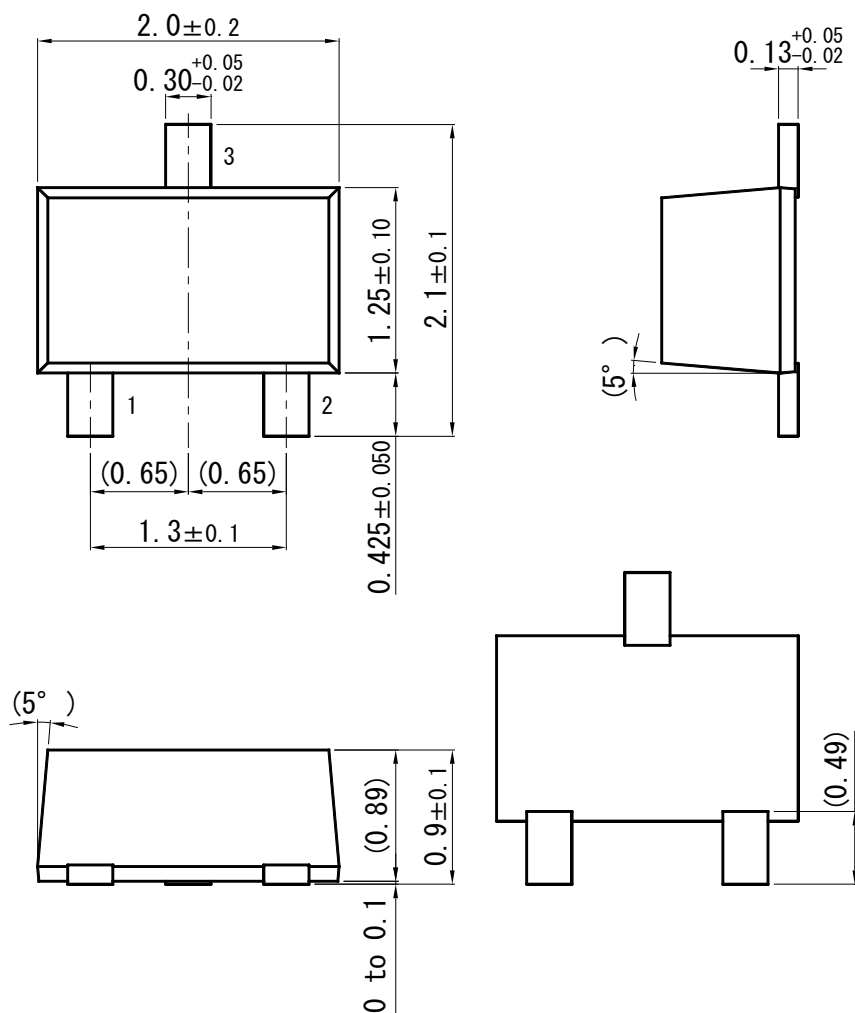
Code	P	Q	R
Rank	P	Q	R
I_{DSS} (mA)	1.0 to 3.0	2.0 to 6.5	5.0 to 12.0
Marking symbol	B6P	B6Q	B6R

Technical Data (reference)

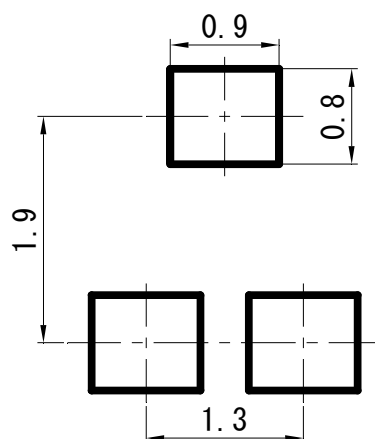


SMini3-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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