

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_{GD0}
- Halogen-free / RoHS compliant
(EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

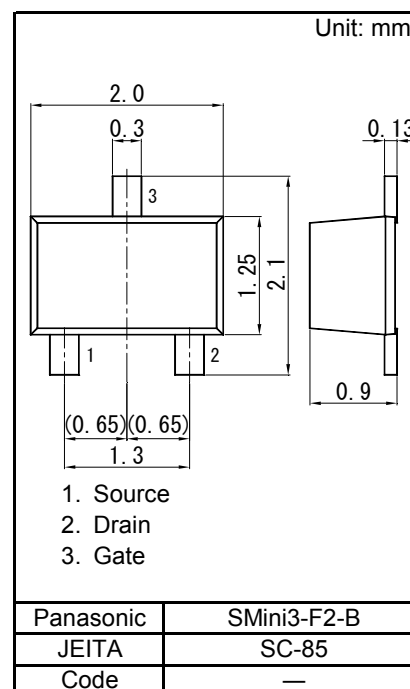
■ Marking Symbol: B6

■ Packaging

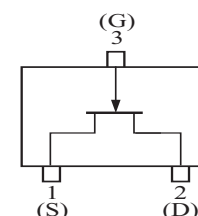
Embossed type (Thermo-compression sealing) : 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °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	P _D	150	mW
Channel temperature	T _{ch}	150	°C
Operating ambient temperature	T _{opr}	-40 to +85	°C
Storage temperature	T _{stg}	-55 to +150	°C



Internal Connection



■ Electrical Characteristics Ta = 25 °C ± 3 °C

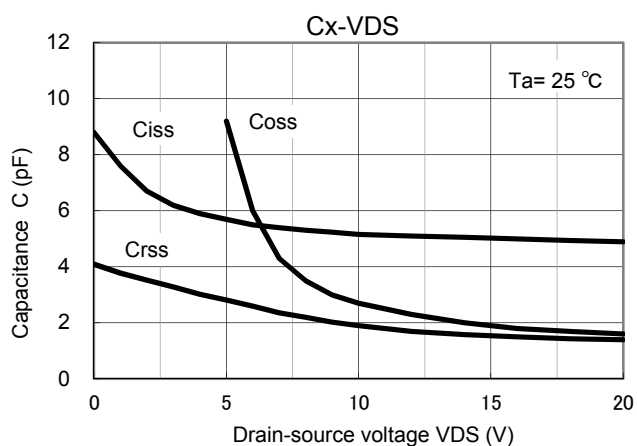
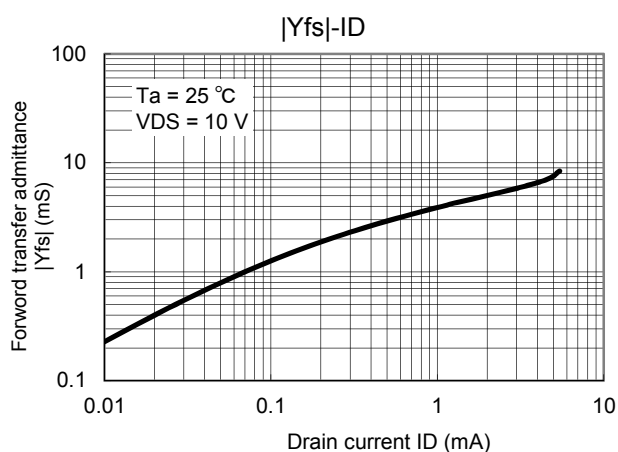
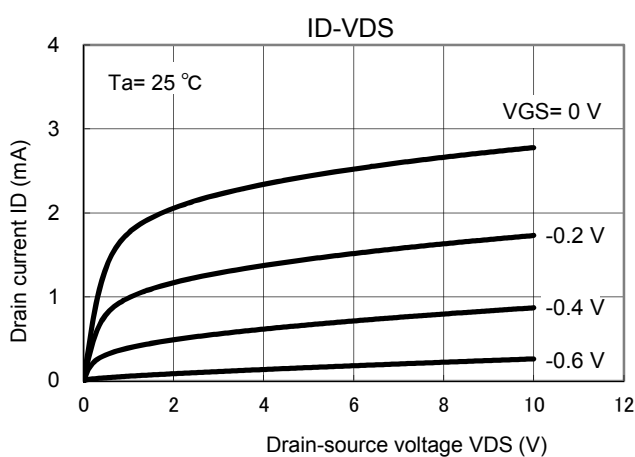
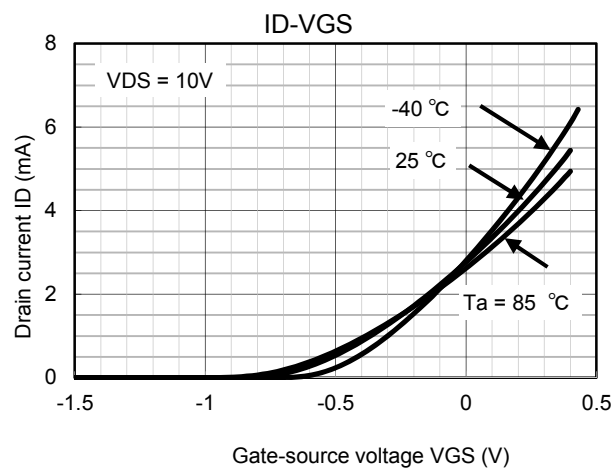
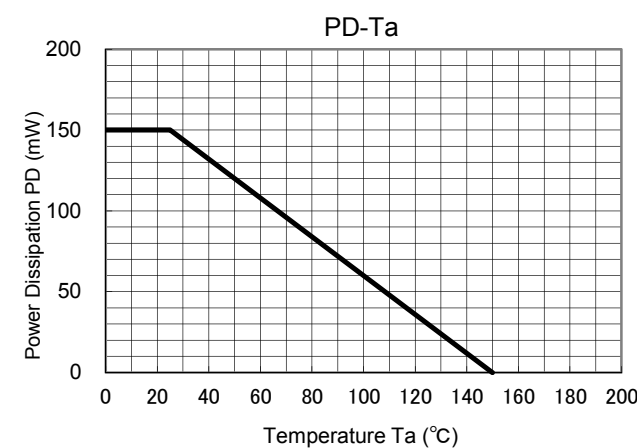
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Gate-drain voltage (Source short)	V _{GDS}	I _G = -100 μA, V _{DS} = 0	-55			V
Drain current *1	I _{DSS}	V _{DS} = 10 V, V _{GS} = 0	1.0		12.0	mA
Gate-source cutoff current	I _{GSS}	V _{GS} = -30 V, V _{DS} = 0			-10	nA
Gate-source cutoff voltage	V _{GSC}	V _{DS} = 10 V, I _D = 10 μA			-5	V
Forward transfer admittance	Y _{fs}	V _{DS} = 10 V, I _D = 5 mA, f = 1 kHz	2.5	7.5		mS
Small-signal short-circuit input capacitance	C _{iss}	V _{DS} = 10 V, V _{GS} = 0, f = 1 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

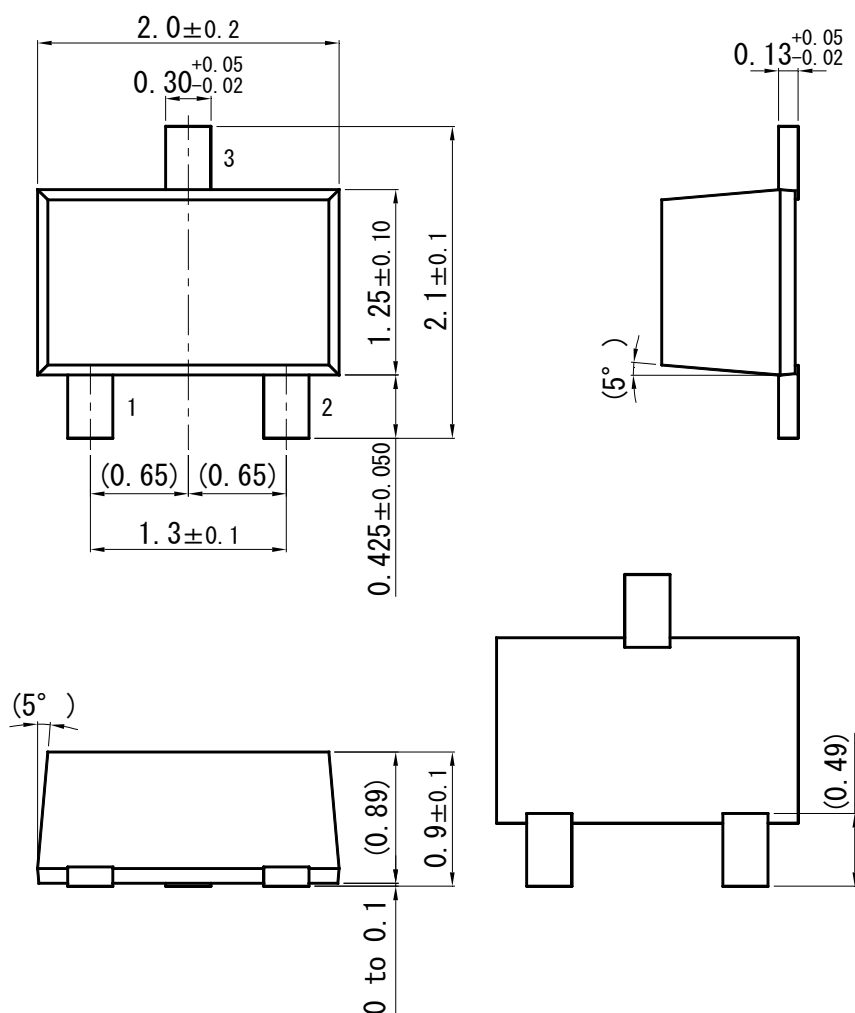
Code	P	Q	R
Rank	P	Q	R
IDSS (mA)	1.0 to 3.0	2.0 to 6.5	5.0 to 12.0
Marking symbol	B6P	B6Q	B6R

Technical Data (reference)

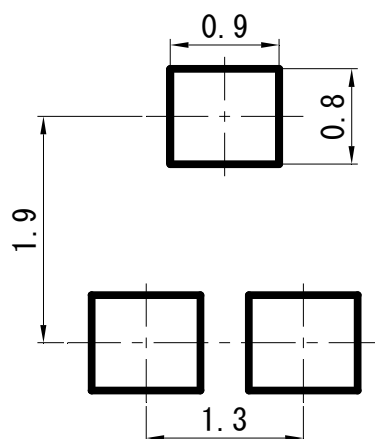


SMini3-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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