



DSK3J02×0L

Silicon N-channel Junction FET

For impedance conversion in low frequency

■ Features

- Low Noise
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)

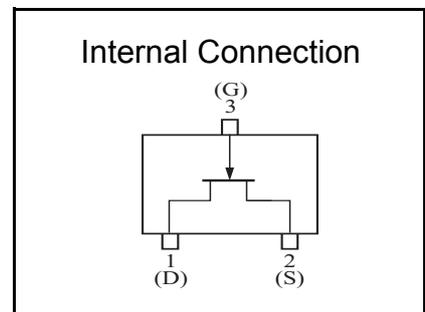
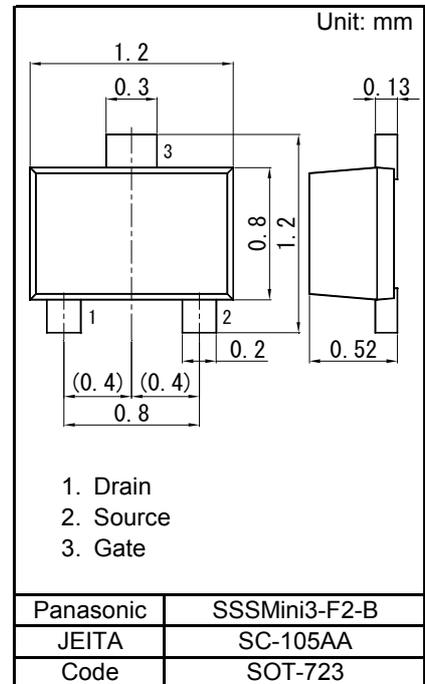
■ Marking Symbol: 3

■ Packaging

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

■ 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)	IDS0	2	mA
Drain-gate current(Source open)	IDGO	2	mA
power dissipation	PD	100	mW
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C





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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Drain current *1	ID	VDS = 2.0 V, Rd = 2.2 kΩ ± 1%	100		470	μA
Drain-source current *2	IDSS	VDS = 2.0 V, Rd = 2.2 kΩ ± 1%, VGS = 0	110		460	μA
Forward transfer admittance	yfs	VD = 2.0 V, VGS = 0, f = 1 kHz	660	1500		μS
Noise voltage *3	NV	VD = 2.0 V, Rd = 2.2 kΩ ± 1% CO = 5 pF, A-curve			4	μV
Voltage gain	GV1	VD = 2.0 V, Rd = 2.2 kΩ ± 1% CO = 5 pF, eG = 10 mV, f = 1 kHz	-5.0	-1.0		dB
	GV2	VD = 1.5 V, Rd = 2.2 kΩ ± 1% CO = 5 pF, eG = 10 mV, f = 1 kHz	-7.0	-1.5		
Voltage gain difference	Δ GV·f *4	VD = 2.0 V, Rd = 2.2 kΩ ± 1% CO = 5 pF, eG = 10 mV f = 1 kHz to 70 Hz		0	1.7	
	GV1-GV2		0		2.0	

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

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.

*1: ID is assured for IDSS .

*2: Rank classification

Code	S	T	U
Rank	S	T	U
ID (μA)	100 to 220	180 to 320	280 to 470
IDSS (μA)	110 to 210	190 to 310	290 to 460
Marking symbol	3S	3T	3U

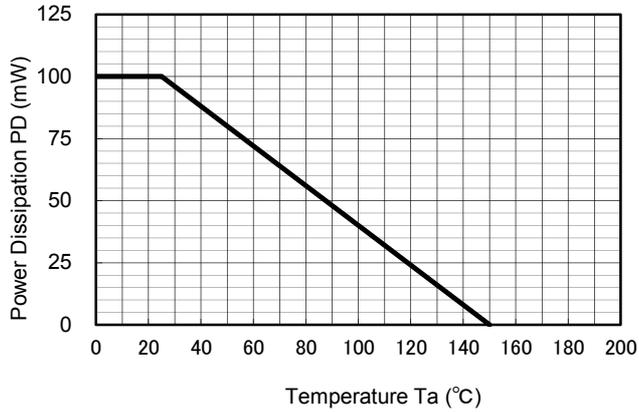
*3: NV is assured for design.

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

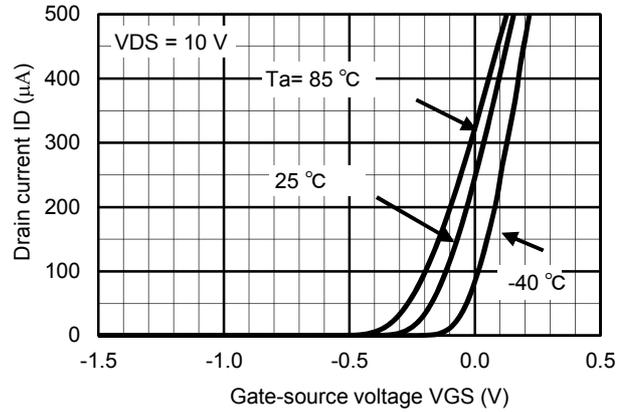


Technical Data (reference)

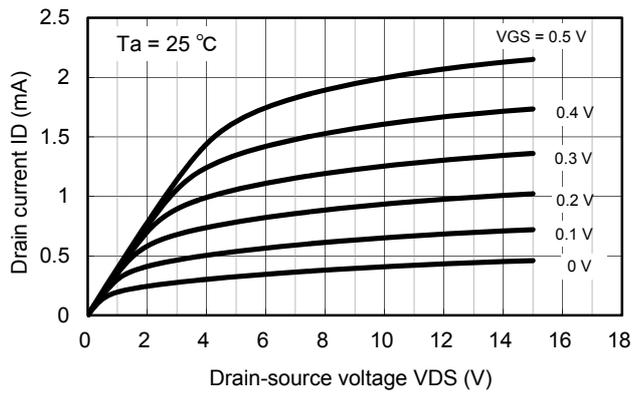
PD - Ta



ID - VGS



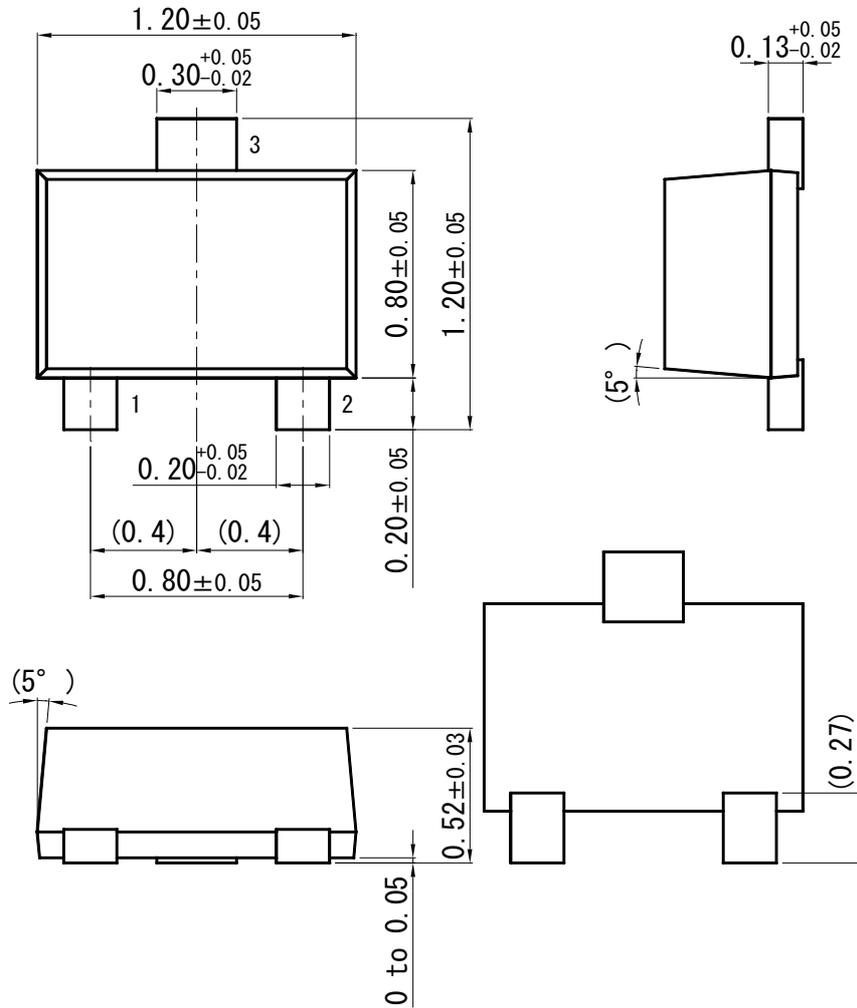
ID - VDS



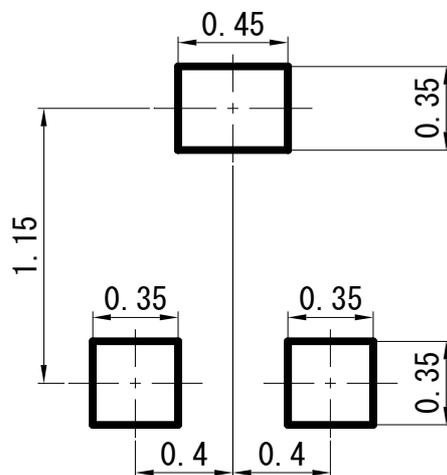


SSSMini3-F2-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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