

# 2SK1103

## Silicon N-channel junction FET

For switching circuits

Complementary to 2SJ0163

### ■ Features

- Low ON resistance
- Low-noise characteristics

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

Parameter	Symbol	Rating	Unit
Gate-drain surrender voltage	$V_{GDS}$	-65	V
Drain current	$I_D$	20	mA
Gate current	$I_G$	10	mA
Power dissipation	$P_D$	150	mW
Channel temperature	$T_{ch}$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

### ■ Package

- Code  
Mini3-G1
- Pin Name  
1: Source  
2: Drain  
3: Gate

### ■ Marking Symbol: 4L

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

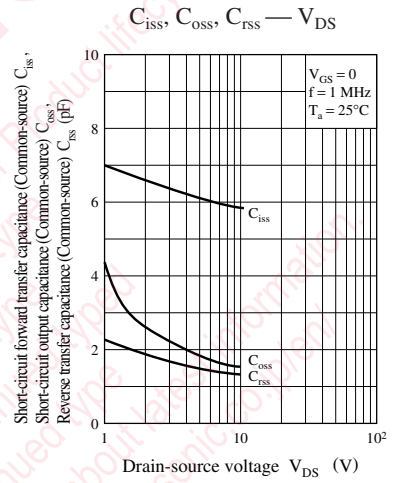
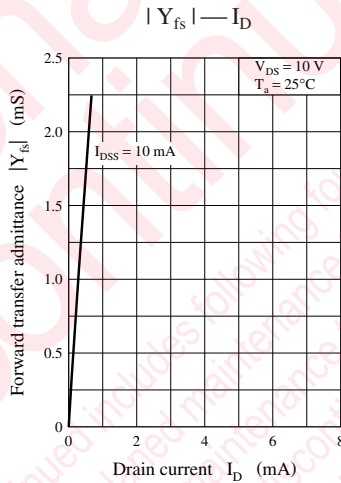
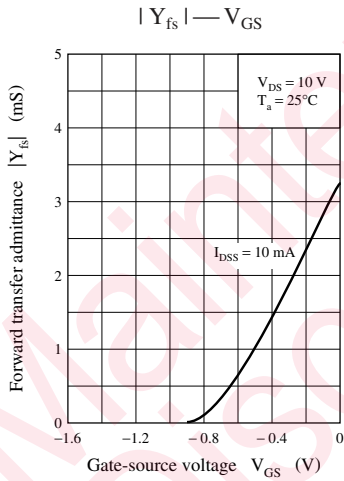
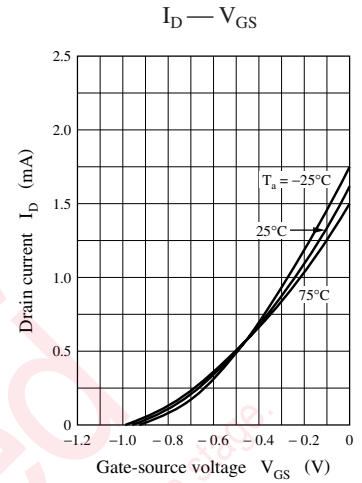
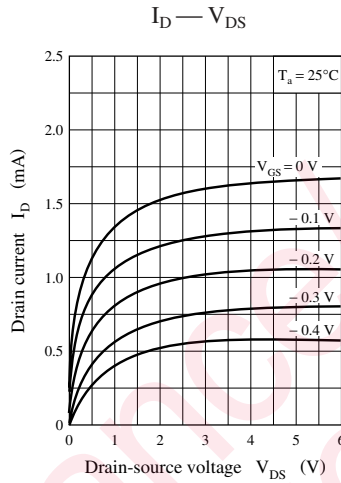
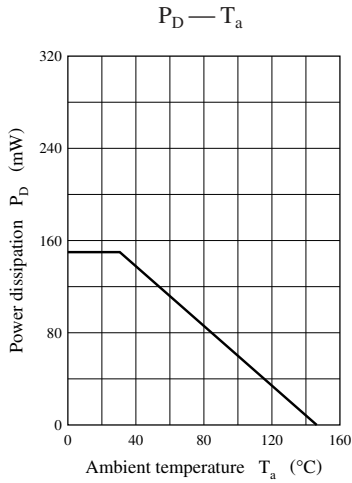
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Gate-drain surrender voltage	$V_{GDS}$	$I_G = -10 \mu\text{A}$ , $V_{DS} = 0$	-65			V
Drain-source current *	$I_{DSS}$	$V_{DS} = 10 \text{ V}$ , $V_{GS} = 0$	0.6		6.0	mA
Gate-source cutoff current	$I_{GSS}$	$V_{GS} = -30 \text{ V}$ , $V_{DS} = 0$			-10	nA
Gate-source cutoff voltage	$V_{GSC}$	$V_{DS} = 10 \text{ V}$ , $I_D = 10 \mu\text{A}$		-1.5	-3.5	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS} = 10 \text{ V}$ , $I_D = 1 \text{ mA}$ , $f = 1 \text{ kHz}$	1.8	2.5		mS
Drain-source ON resistance	$R_{DS(on)}$	$V_{DS} = 10 \text{ mV}$ , $V_{GS} = 0$		300		$\Omega$
Short-circuit forward transfer capacitance (Common source)	$C_{iss}$	$V_{DS} = 10 \text{ V}$ , $V_{GS} = 0$ , $f = 1 \text{ MHz}$		7		pF
Reverse transfer capacitance (Common source)	$C_{rss}$			1.5		pF

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. Observe precautions for handling. Electrostatic sensitive devices.

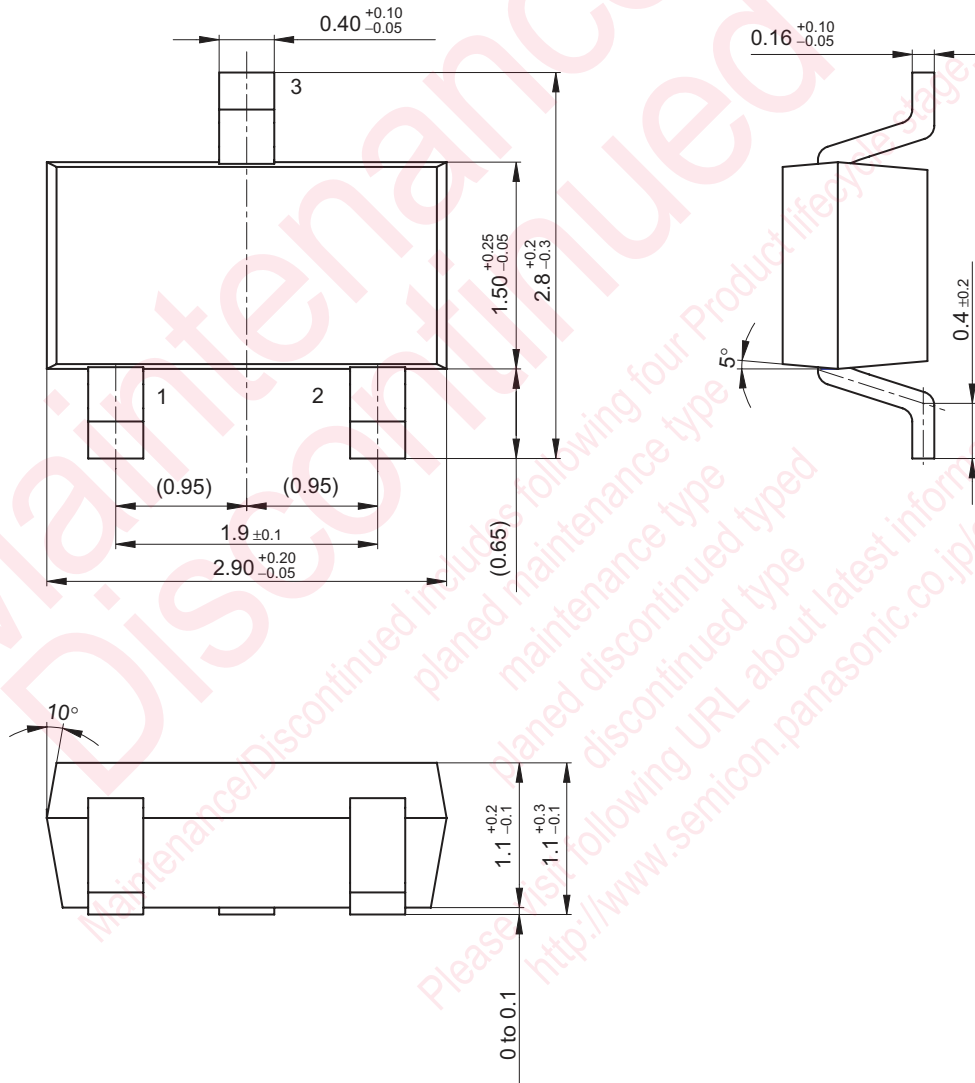
3. \*: Rank classification

Rank	P	Q	R
$I_{DSS}$ (mA)	0.6 to 1.5	1.0 to 3.0	2.5 to 6.0



Mini3-G1

Unit: mm



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