

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** $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

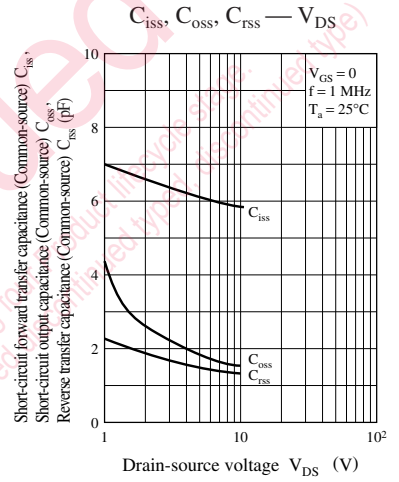
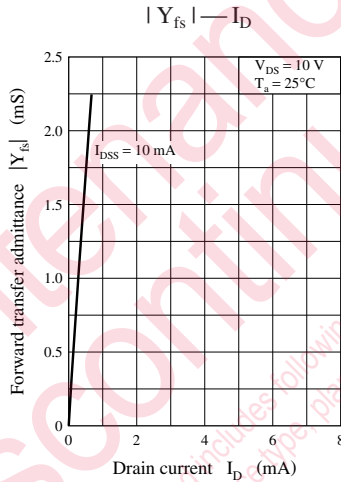
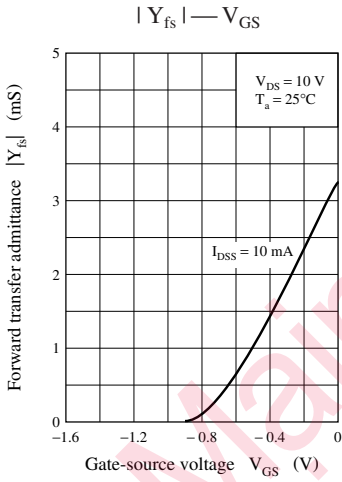
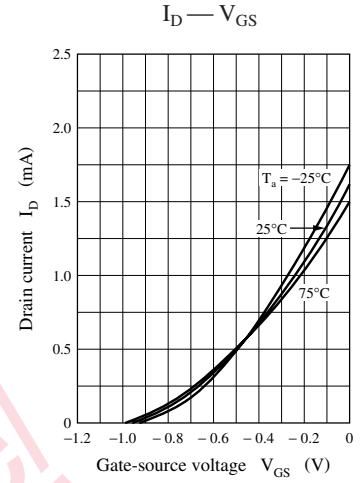
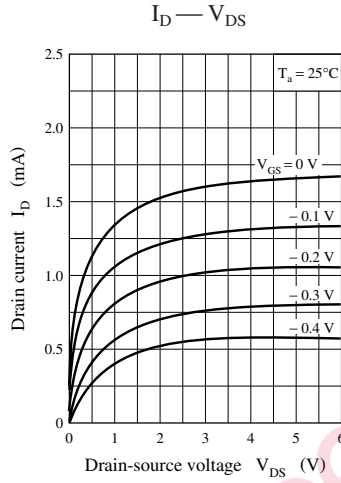
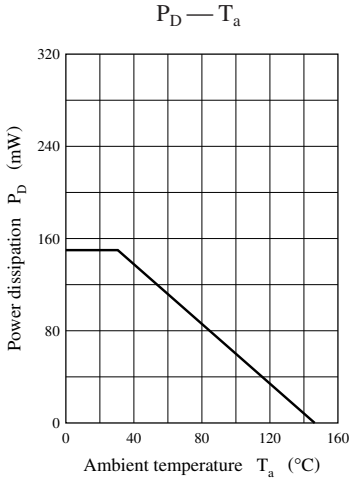
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Gate-drain surrender voltage	V_{GDS}	$I_{\text{G}} = -10 \mu\text{A}$, $V_{\text{DS}} = 0$	-65			V
Drain-source current *	I_{DSS}	$V_{\text{DS}} = 10 \text{ V}$, $V_{\text{GS}} = 0$	0.6		6.0	mA
Gate-source cutoff current	I_{GSS}	$V_{\text{GS}} = -30 \text{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

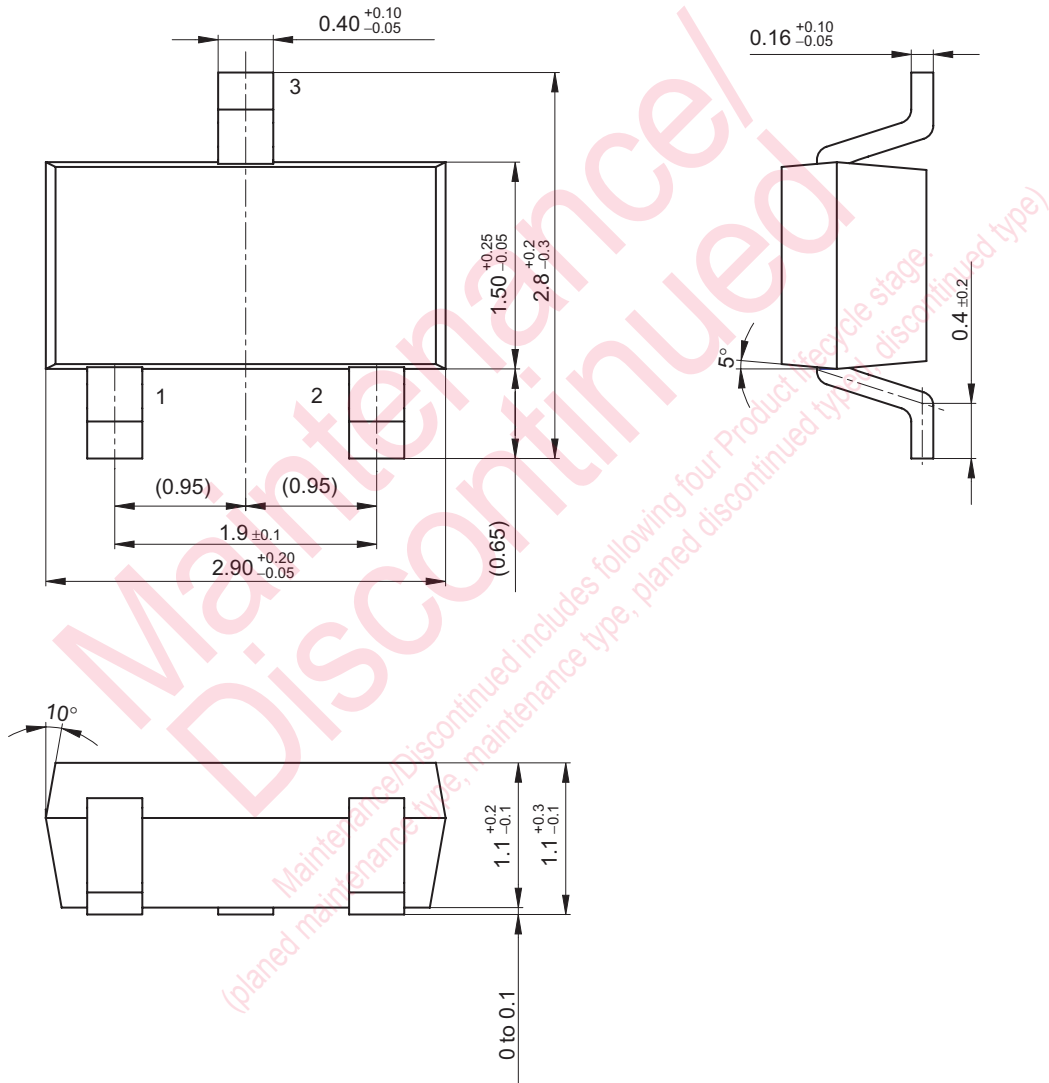
3. *: Rank classification

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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