2SK1103

Silicon N-channel junction FET

For switching circuits
Complementary to 2SJ0163

■ Features

- Low ON resistance
- Low-noise characteristics

■ Package

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

■ Marking Symbol: 4L

■ Absolute Maximum Ratings $T_a = 25°C$

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	°C
Storage temperature	T_{stg}	−55 to +150	°C

■ Electrical Characteristics $T_a = 25°C \pm 3°C$

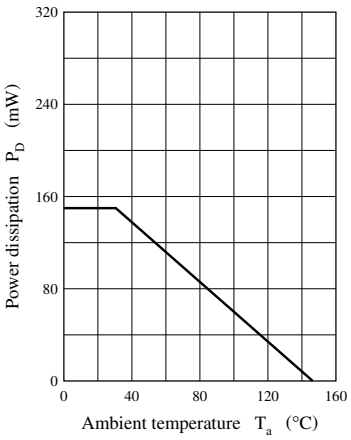
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Gate-drain surrender voltage	V_{GDS}	$I_G = -10$ µA, $V_{DS} = 0$	−65			V
Drain-source current *	I_{DSS}	$V_{DS} = 10$ V, $V_{GS} = 0$	0.6		6.0	mA
Gate-source cutoff current	I_{GSS}	$V_{GS} = -30$ V, $V_{DS} = 0$			−10	nA
Gate-source cutoff voltage	V_{GSC}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

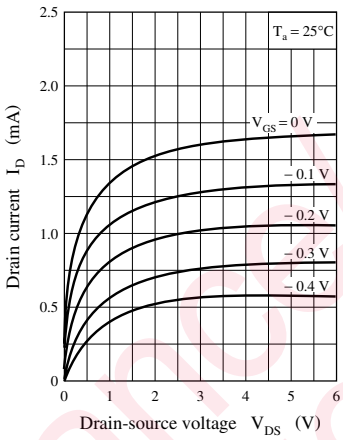
Rank	P	Q	R
I_{DSS} (mA)	0.6 to 1.5	1.0 to 3.0	2.5 to 6.0

Maintenance/Discontinued
Discontinued includes following four Product life cycle stage.
Planned maintenance type
Maintenance type
Planned discontinued typed
Discontinued type
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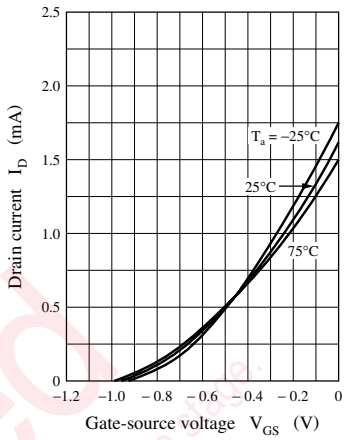
P_D — T_a



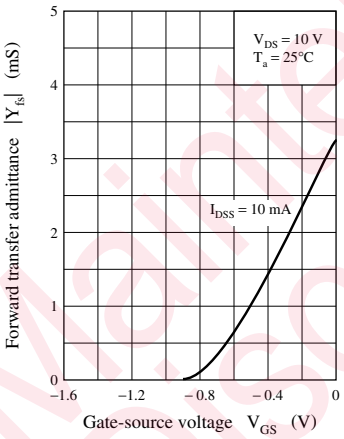
I_D — V_{DS}



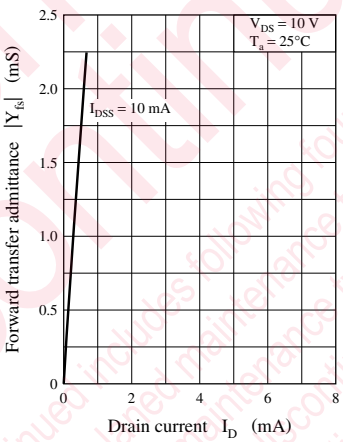
I_D — V_{GS}



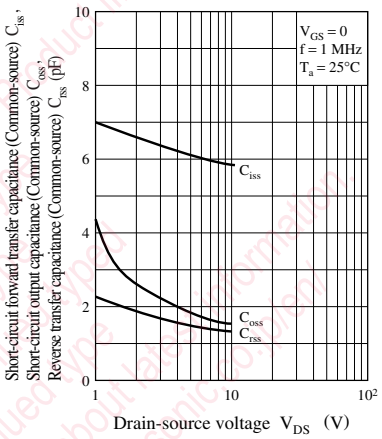
$|Y_{fs}|$ — V_{GS}



$|Y_{fs}|$ — I_D



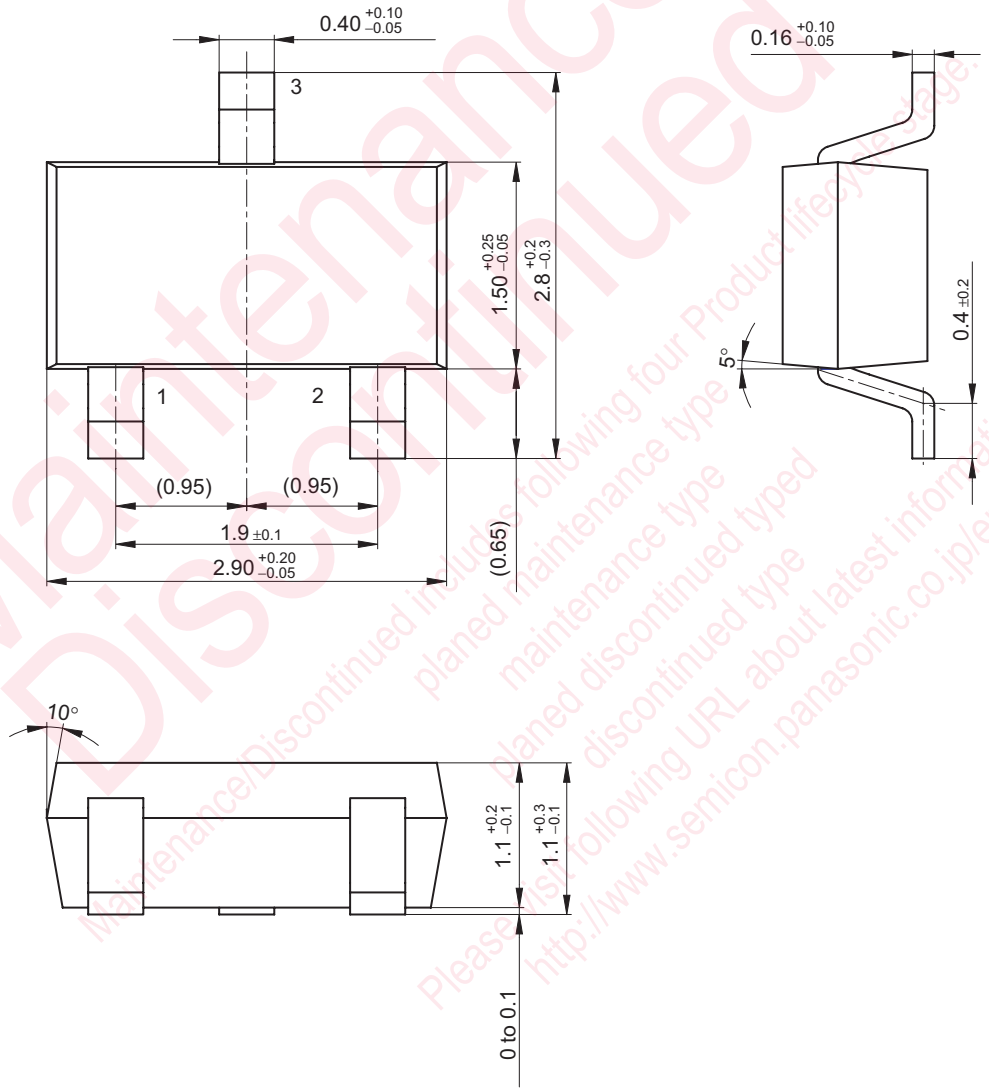
C_{iss}, C_{oss}, C_{rss} — V_{DS}



Maintenance/Discontinued
Discontinued includes following four products
planed maintenance version
planed discontinued type
discontinued type
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Mini3-G1

Unit: mm



Maintenance/ Discontinued
Maintenance/Discontinued includes following four Product lifecycle stage.
planed maintenance type
maintenance type
planed discontinued typed
discontinued type
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