2SJ0163 (2SJ163)

Silicon P-channel junction FET

For switching circuits
Complementary to 2SK1103

■ Features

- Low ON resistance
- Low-noise characteristics

■ Package

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

■ Marking Symbol: 4M

■ 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}	$I_G = 10\ \mu A$, $V_{DS} = 0$	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, $I_D = -10\ \mu A$		1.5	3.5	V
Forward transfer admittance	$\lvert Y_{fs} \rvert$	$V_{DS} = -10$ 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		12		pF
Reverse transfer capacitance (Common source)	C_{rss}			4		pF

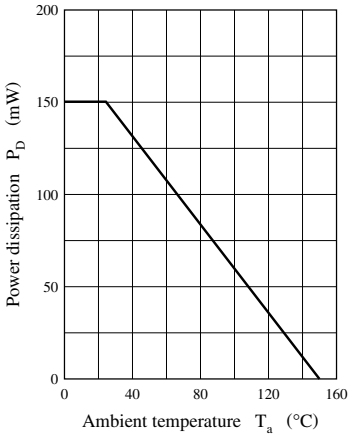
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.
2. Observe precautions for handling. Electrostatic sensitive devices.
3. *: Rank classification

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

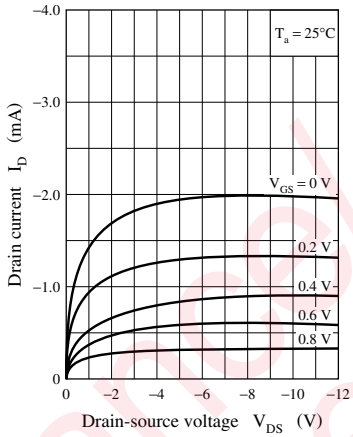
Note) The part number in the parenthesis shows conventional part number.

Maintenance/Discontinued includes following four Product lifecycle stage.
Planned maintenance type
Maintenance type
Planned discontinued type
Discontinued type
Please visit the following URL about the latest information.
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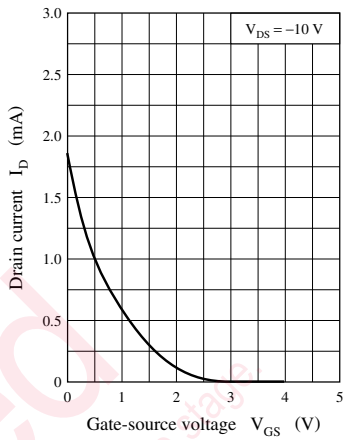
P_D — T_a



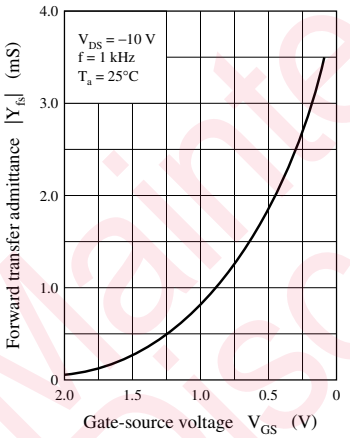
I_D — V_{DS}



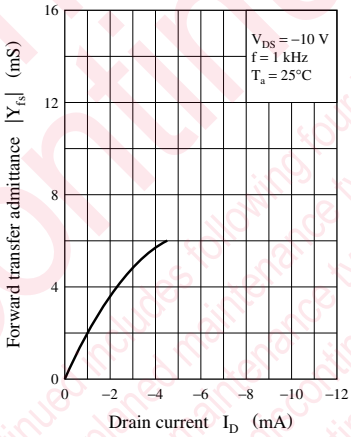
I_D — V_{GS}



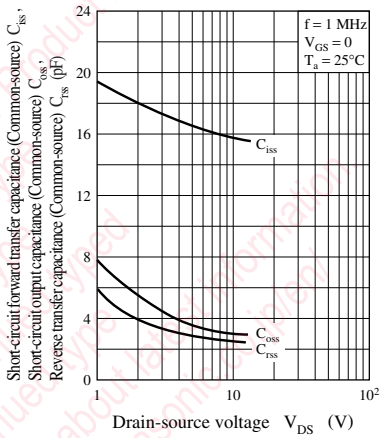
$|Y_{fs}|$ — V_{GS}



$|Y_{fs}|$ — I_D



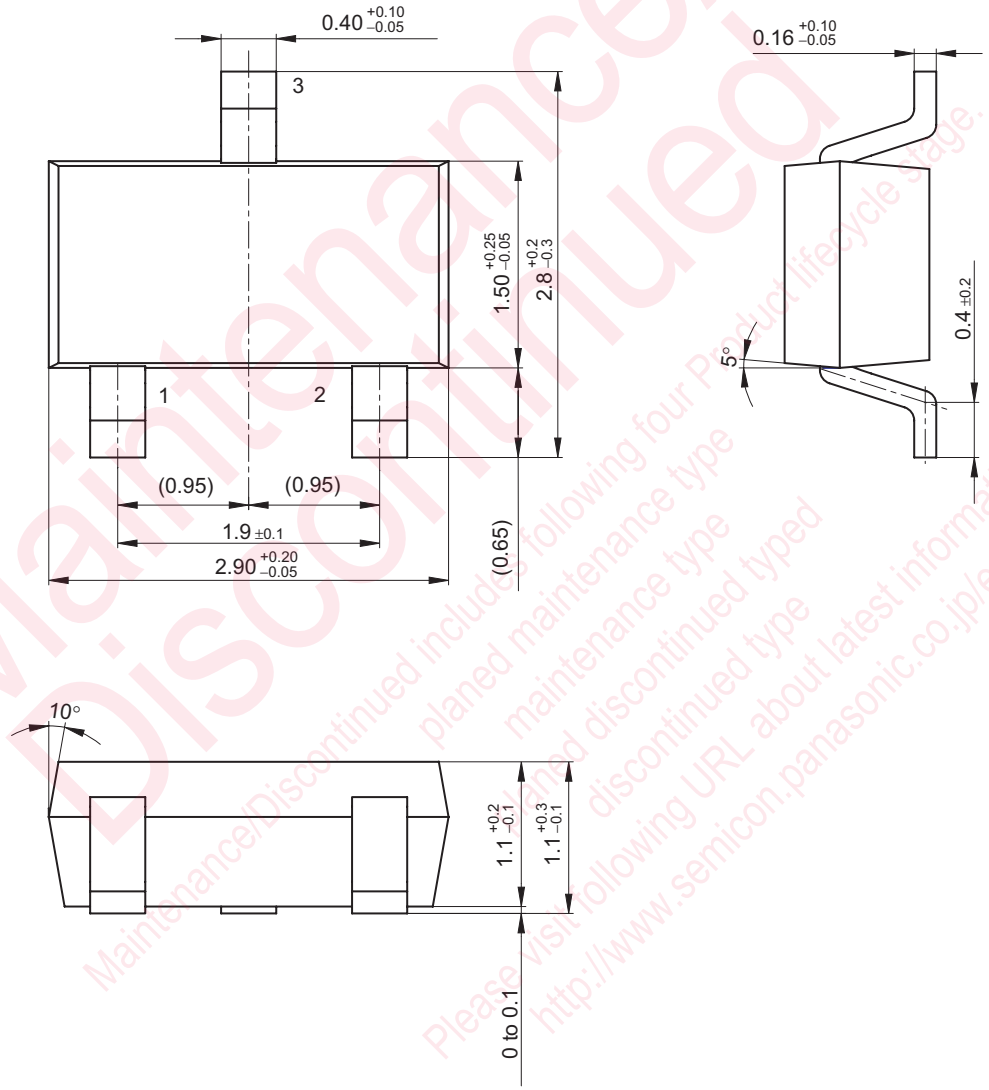
C_{iss} , C_{oss} , C_{rss} — V_{DS}



Maintenance/Discontinued
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Mini3-G1

Unit: mm



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