2SK1103

Silicon N-Channel Junction FET

For switching

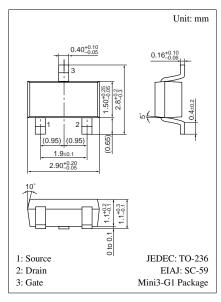
Complementary to 2SJ0163 (2SJ163)

■ Features

- Low ON-resistance
- Low-noise characteristics

■ Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Ratings	Unit	
Gate to Drain voltage	V _{GDS}	-65	V	
Drain current	I_{D}	20	mA	
Gate current	I_G	10	mA	
Allowable power dissipation	P_{D}	150	mW	
Channel temperature	T _{ch}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	



Marking Symbol (Example): 4L

■ Electrical Characteristics (T_a = 25°C)

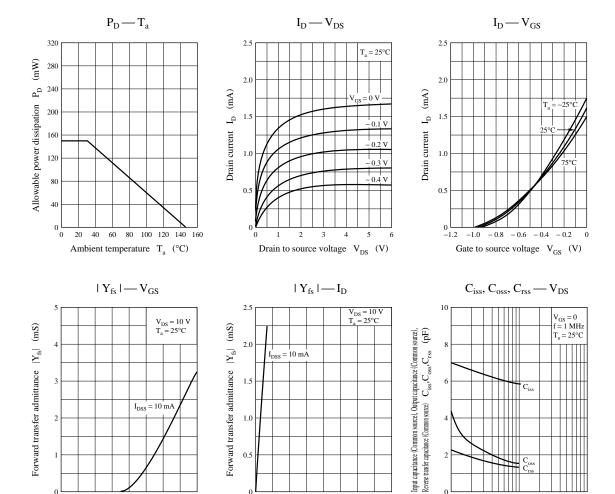
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain to Source cut-off current	I _{DSS} *	$V_{DS} = 10 \text{ V}, V_{GS} = 0$	0.2		6	mA
Gate to Source leakage current	I_{GSS}	$V_{GS} = -30 \text{ V}, V_{DS} = 0$			-10	nA
Gate to Drain voltage	V _{GDS}	$I_G = -10 \ \mu A, \ V_{DS} = 0$	-65			V
Gate to Source cut-off 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 to Source ON-resistance	R _{DS(on)}	$V_{DS} = 10 \text{ mV}, V_{GS} = 0$		300		Ω
Input 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}	V _{DS} = 10 V, V _{GS} = 0, 1 = 1 WHZ		1.5		pF

^{*} IDSS rank classification

Runk	О	P	Q	R
I _{DSS} (mA)	0.2 to 1	0.6 to 1.5	1 to 3	2.5 to 6
Marking Symbol	4LO	4LP	4LQ	4LR

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

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Drain current I_D (mA)

Drain to source voltage V_{DS} (V)

0.5

-1.2

Gate to source voltage V_{GS} (V)

2 SJF00011BED

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