XN0D873 (XN1D873)

Silicon N-channel junction FET

For analog switching

■ Features

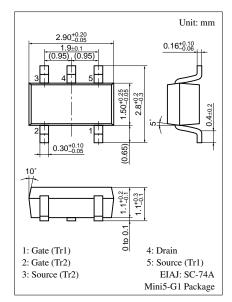
- Two elements incorporated into one package (Drain-coupled FETs)
- Reduction of the mounting area and assembly cost by one half
- Low-frequency and low-noise J-FET

■ Basic Part Number of Element

• $2SK1103 \times 2$ elements

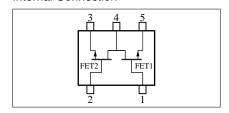
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit	
Rating	Gate to drain voltage	V_{GDS}	-50	V	
of	Drain current	I_D	30	mA	
element	Gate current	I_G	10	mA	
Total	Total power dissipation	P _T	300	mW	
	Channel temperature	T _{ch}	150	°C	
	Storage temperature	T _{stg}	-55 to +150	°C	



Marking Symbol: OC

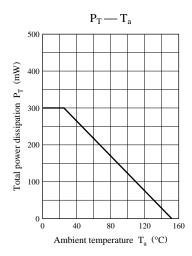
Internal Connection

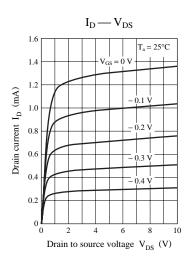


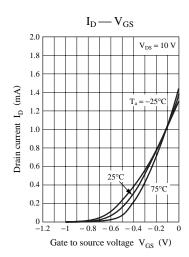
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

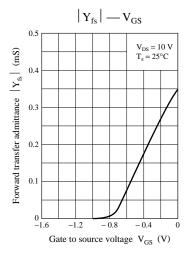
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Gate to drain voltage	V _{GDS}	$I_C = -10 \mu\text{A}, V_{DS} = 0$	-50			V
Drain current	I _{DSS}	$V_{DS} = 10 \text{ V}, V_{GS} = 0$	0.2		6.0	mA
Gate cutoff current	I_{GSS}	$V_{GS} = -30 \text{ V}, V_{DS} = 0$			-10	nA
Gate to source cutoff voltage	V _{GSC}	$V_{DS} = 10 \text{ V}, I_{D} = 10 \mu\text{A}$		-1.5	-3.5	V
Drain resistance (On)	R _{DS(on)}	$V_{DS} = 10 \text{ mV}, V_{GS} = 0$		300		Ω
Mutual conductance	gm	$V_{DS} = 10 \text{ V}, I_D = 1 \text{ mA}, f = 1 \text{ kHz}$	1.8	2.5		mS
Small-signal short-circuit input capacitance	C _{iss}	$V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$		7		pF
Small-signal short-circuit output capacitance	C _{oss}	$V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$		1.5		pF
Small-signal reverse transfer capacitance	C_{rss}	$V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$		1.5		pF

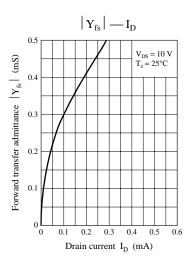
Note) The part number in the parenthesis shows conventional part number.











2 SJJ00119BED

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