

XP1D873

Silicon N-channel junction FET

For analog switching

■ Features

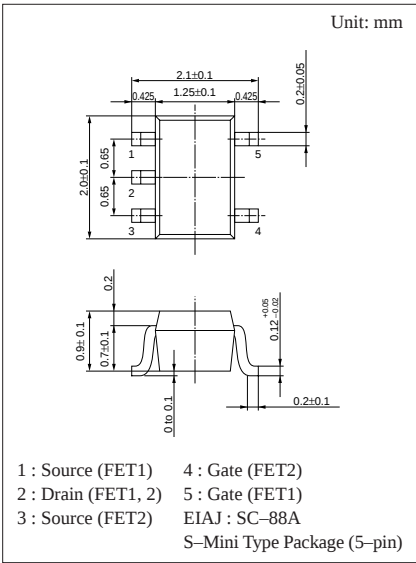
- Two elements incorporated into one package.
(Drain-coupled FETs)
- Reduction of the mounting area and assembly cost by one half.
- Low-frequency and low-noise J-FET.

■ Basic Part Number of Element

- 2SK1103 × 2 elements

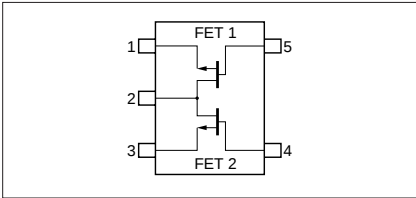
■ Absolute Maximum Ratings (Ta=25°C)

	Parameter	Symbol	Ratings	Unit
Rating of element	Gate to drain voltage	V_{GDS}	-50	V
	Drain current	I_D	30	mA
	Gate current	I_G	10	mA
Overall	Total power dissipation	P_T	150	mW
	Channel temperature	T_{ch}	150	°C
	Storage temperature	T_{sig}	-55 to +150	°C



Marking Symbol: OC

Internal Connection



■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Drain voltage	V_{GDS}	$I_G = -10\mu A, V_{DS} = 0$	-50			V
Drain current	I_{DSS}	$V_{DS} = 10V, V_{GS} = 0$	0.2		6.0	mA
Gate cutoff current	I_{GSS}	$V_{GS} = -30V, V_{DS} = 0$			-10	nA
Gate to source cutoff voltage	V_{GSC}	$V_{DS} = 10V, I_D = 10\mu A$		-1.5	-3.5	V
Mutual conductance	g_m	$V_{DS} = 10V, I_D = 1mA, f = 1kHz$	1.8	2.5		mS
Drain ON resistance	$R_{DS(on)}$	$V_{DS} = 10mV, V_{GS} = 0$		300		Ω
Common source short-circuit input capacitance	C_{iss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		7		pF
Common source reverse transfer capacitance	C_{rss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		1.5		pF
Common source short-circuit output capacitance	C_{oss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		1.5		pF

