

XP1D873

Silicon N-channel junction FET

For analog switching

■ Features

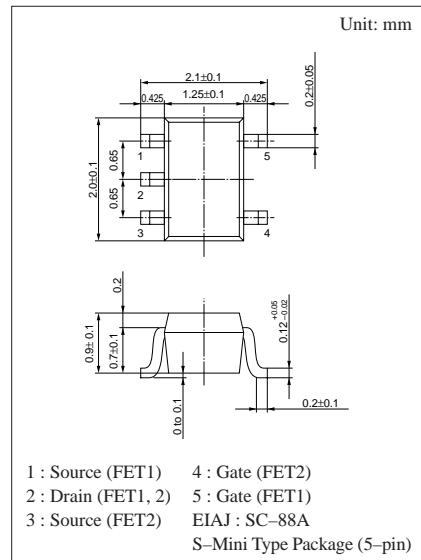
- Two elements incorporated into one package.
(Drain-coupled FETs)
- Reduction of the mounting area and assembly cost by one half.
- Low-frequency and low-noise J-FET.

■ Basic Part Number of Element

- 2SK1103 × 2 elements

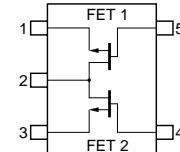
■ Absolute Maximum Ratings (Ta=25°C)

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 _{stg}	-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 = -10μA, 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 = 10μA		-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

