

XN1871

Silicon N-channel junction FET

For amplification of the low frequency

■ Features

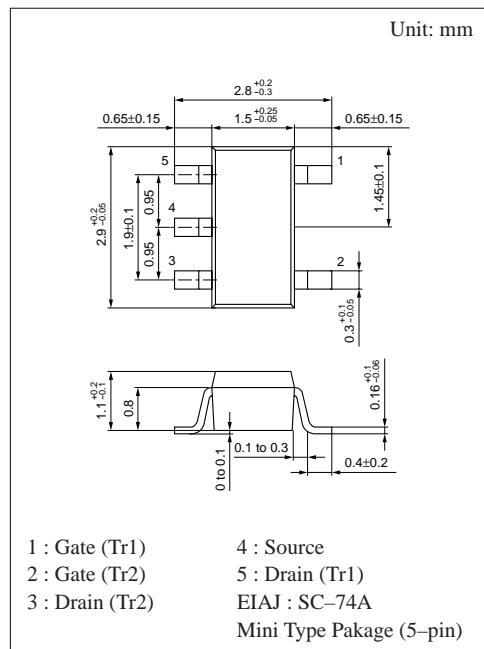
- Two elements incorporated into one package.
(Source-coupled FETs)
- Reduction of the mounting area and assembly cost by one half.

■ Basic Part Number of Element

- 2SK198 × 2 elements

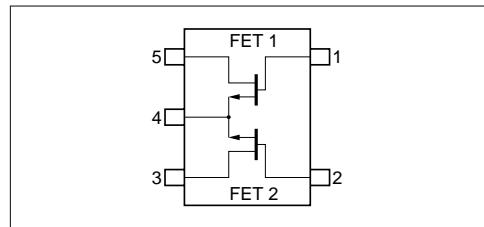
■ Absolute Maximum Ratings (Ta=25°C)

	Parameter	Symbol	Ratings	Unit
Rating of element	Drain to source voltage	V _{DSX}	30	V
	Gate to drain voltage	V _{GDO}	-30	V
	Drain current	I _D	20	mA
	Gate current	I _G	10	mA
Overall	Total power dissipation	P _T	300	mW
	Channel temperature	T _{ch}	150	°C
	Storage temperature	T _{stg}	-55 to +150	°C



Marking Symbol: 5T

Internal Connection



■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Drain current	I _{DSS}	V _{DS} = 10V, V _{GS} = 0	0.5		12	mA
Gate cutoff current	I _{GSS}	V _{GS} = -30V, V _{DS} = 0			-100	nA
Gate to source cutoff voltage	V _{GSC}	V _{DS} = 10V, I _D = 10µA	-0.1		-1.5	V
Mutual conductance	gm	V _{DS} = 10V, I _D = 0.5mA, f = 1MHz	4			mS
	gm	V _{DS} = 10V, V _{GS} = 0V, f = 1MHz	4	12		mS
Common source short-circuit input capacitance	C _{iss}	V _{DS} = 10V, V _{GS} = 0V, f = 1MHz		14		pF
Common source reverse transfer capacitance	C _{rss}	V _{DS} = 10V, V _{GS} = 0V, f = 1MHz		3.5		pF
Noise voltage	NV	V _{DS} = 30V, I _D = 1mA, G _V = 80dB R _g = 100kΩ, Function = FLAT		60		mV

