XN01871 (XN1871)

Silicon N-channel junction FET

For amplification of the low frequency

Features

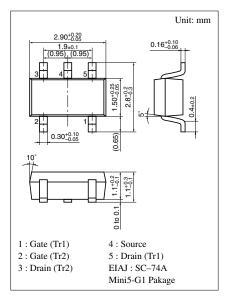
- Two elements incorporated into one package. (Soure-coupled FETs)
- Reduction of the mounting area and assembly cost by one half.

Basic Part Number of Element

• 2SK0198(2SK198) × 2 elements

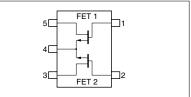
Parameter		Symbol	Ratings	Unit
Rating of element	Drain to source voltage	V _{DSX}	30	V
	Gate to drain voltage	V_{GDO}	-30	V
	Drain current	ID	20	mA
	Gate current	I_G	10	mA
Overall	Total power dissipation	P _T	300	mW
	Channel temperature	T _{ch}	150	°C
	Storage temperature	T _{stg}	-55 to +150	°C

Absolute Maximum Ratings (Ta=25°C)



Marking Symbol: 5T

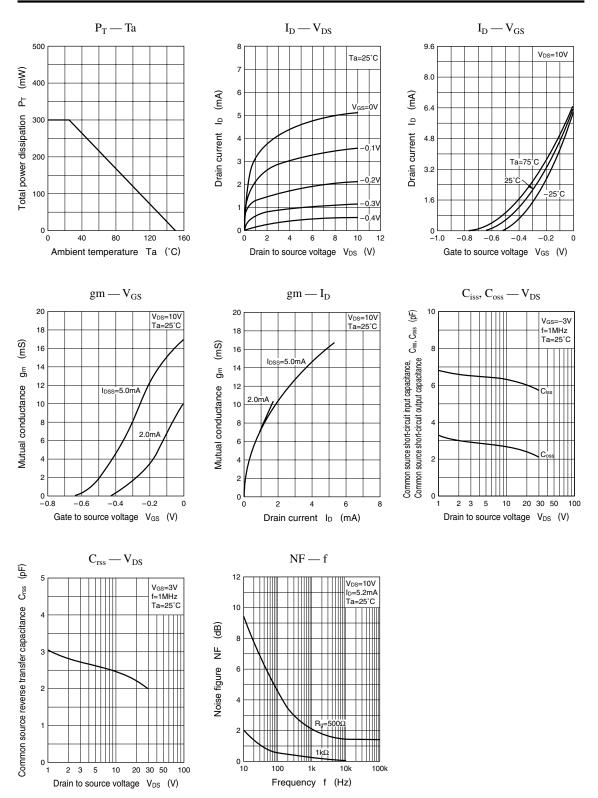
Internal Connection



Conditions Parameter Symbol min typ max Unit 12 $V_{DS} = 10V, V_{GS} = 0$ 0.5 Drain current IDSS mA $V_{GS} = -30V, V_{DS} = 0$ -100Gate cutoff current nA IGSS Gate to source cutoff voltage $V_{DS} = 10V, I_D = 10\mu A$ -0.1-1.5V V_{GSC} $V_{DS} = 10V, I_D = 0.5mA, f = 1MHz$ gm 4 mS Mutual conductance $V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$ 4 12 mSgm $V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$ 14 Common source short-circuit input capacitance Ciss pF Common source reverse transfer capacitance C_{rss} $V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$ 3.5 pF $V_{DS} = 30V, I_D = 1mA, G_V = 80dB$ NV Noise voltage 60 mV $Rg = 100k\Omega$, Function = FLAT

Electrical Characteristics (Ta=25°C)

Note) The Part number in the Parenthesis shows conventional part number.



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