

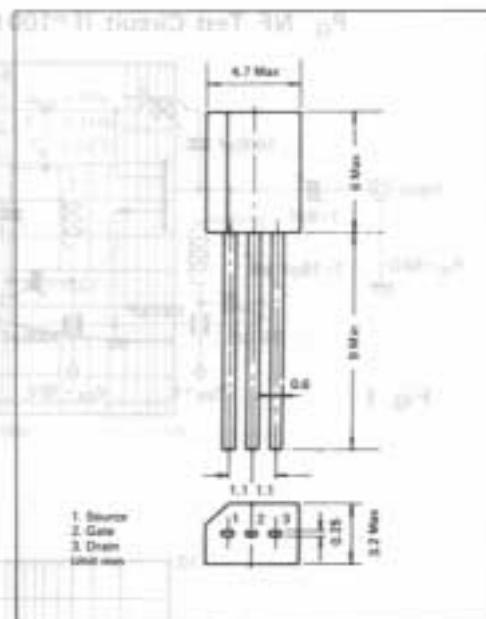
2SK23A

Silicon N-Channel Junction FET

- 汎用 DC-to-VHF Use, Low Noise, High Reliability
- Economical Type: 2SK107
- Dual Type: 2SK58

绝对最大定格 Absolute Maximum Ratings $T_A = 25^\circ\text{C}$

Characteristics	Symbol	2SK23A-8	2SK23A-9
Drain-to-Gate Voltage	V_{DGO}	27V	40V
Source-to-Gate Voltage	V_{SGO}	9V	
Drain Current	I_D	20 mA	
Gate Current	I_G	10 mA	
Power Dissipation	P	250 mW	
Junction Temperature	T_J	100°C	
Storage Temperature	T_{STG}	-30~+120°C	



電気的特性 Electrical Characteristics $T_A = 25^\circ\text{C}$

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Source-to-Gate Voltage	V_{SGO}	$I_{SG} = 10\mu\text{A}$	9			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -6\text{V}, V_{DS} = 0$	-0.05	-10	nA	
Drain Saturation Current	I_{DSS}	$V_{DS} = 10\text{V}, V_{GS} = 0$	2.7		12.1	mA
Pinch-off Voltage	V_p	$V_{DS} = 10\text{V}, I_D = 30\mu\text{A}$	-0.45	-3.85		V
Forward Transfer Conductance	g_m	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{kHz}$	2.7			$\text{m}\Omega$
Input Impedance Y11S	r_p	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 100\text{MHz}$	8			$\text{k}\Omega$
	C_p		5			pF
Output Impedance Y22S	r_p	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 100\text{MHz}$	20			$\text{k}\Omega$
	C_p		2			pF
Reverse Transfer Capacitance	C_{dss}	$V_{DS} = 10\text{V}, f = 1\text{MHz}$	1.8			pF
Input Noise Voltage	e	$V_{DS} = 10\text{V}, V_{GS} = 0, R_g = 10\text{k}\Omega, f = 1\text{kHz}$	13			$\text{nV}/\text{Hz}^{1/2}$
Noise Figure	NF		0.1			dB
Power Gain	P_G	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 100\text{MHz}$	18			dB
Noise Figure	NF	Fig. 1	2			dB

規格細分 Classifications

Rank	I_{DSS} ($V_{DS} = 10\text{V}, V_{GS} = 0$)	$-V_p$ ($V_{DS} = 10\text{V}, I_D = 30\mu\text{A}$)
2SK23A-8-9	2	2.7~5.5
	3	4.5~7.7
	4	6.3~9.9
	5	8.1~12.1
		-2.42
		-2.75
		-3.30
		-3.85