2SK0065 (2SK65)

Silicon N-Channel Junction FET

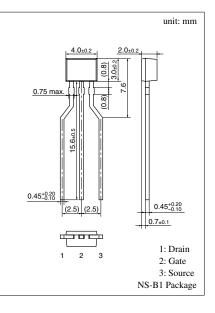
For impedance conversion in low frequency For electret capacitor microphone

Features

- Diode is connected between gate and source
- Low noise voltage

Symbol	.		
0,111201	Ratings	Unit	
V _{DSO}	12	V	
V _{GDO}	-12	V	
I _{DSO}	2	mA	
I _{DGO}	2	mA	
I _{GSO}	2	mA	
P _D	20	mW	
T _{opr}	-10 to +70	°C	
T _{stg}	-20 to +150	°C	
	V _{DSO} V _{GDO} I _{DSO} I _{DGO} I _{GSO} P _D T _{opr}	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

■ Absolute Maximum Ratings (Ta = 25°C)



■ Electrical Characteristics (Ta = 25°C)

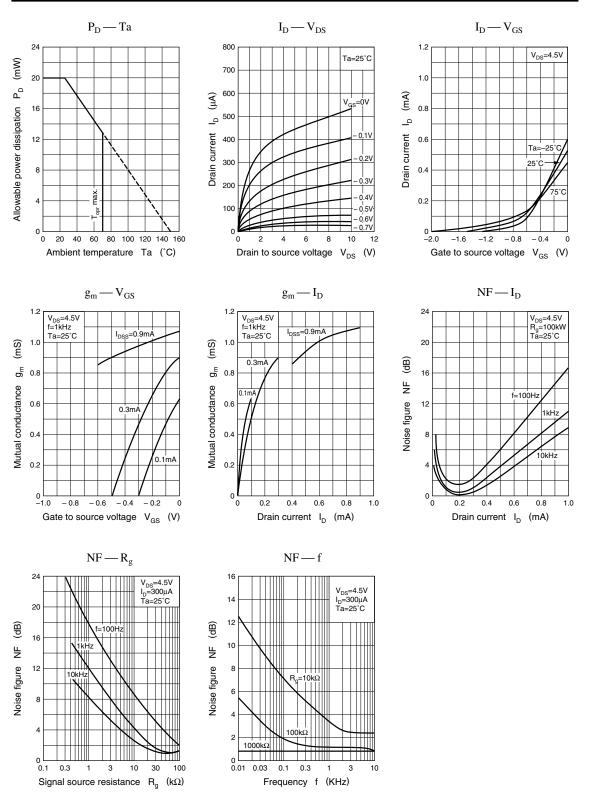
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain to Source cut-off current	I _{DSS} *	$V_{DS} = 4.5V, V_{GS} = 0, R_S = 2.2k\Omega \pm 1\%$	0.04		0.8	mA
Mutual conductance	e g_{m} $V_{DS} = 4.5V, V_{GS} = 0$ $R_{S} = 2.2k\Omega \pm 1\%, f = 1kHz$ 300	$V_{DS} = 4.5V, V_{GS} = 0$	300	500		μS
		500	500		μο	
Noise figure	NV	$V_{DS} = 4.5V, R_S = 2.2k\Omega \pm 1\%$			4	μV
		$C_G = 10 pF$, A-curve			4	μν
Voltage gain	G _{V1} *	$V_{DS} = 4.5 \text{V}, \text{R}_{\text{S}} = 2.2 \text{k}\Omega \pm 1\%$		-10		dB
		$C_G = 10 pF, e_G = 100 mV, f = 70 Hz$		-10		UB
	G _{V2} *	$V_{DS} = 12V, R_S = 2.2k\Omega \pm 1\%$		-9.5		dB
		$C_G = 10 pF, e_G = 100 mV, f = 70 Hz$	-9.5			
	G _{V3} *	$V_{DS} = 1V, R_S = 2.2k\Omega \pm 1\%$		-11		dB
	0 _{V3}	$C_G = 10 pF, e_G = 100 mV, f = 70 Hz$		-11		UD

 * I_{DSS} rank classification and G_V value

Runk	Р	Q
I _{DSS} (mA)	0.04 to 0.2	0.15 to 0.8
G _{V1} (dB)	>-13	>-12
G _{V2} (dB)	>-12	>-11
$\Delta \mid G_{V1} - G_{V2} \mid (dB)$	< 3	< 3

Note) The part number in the parenthesis shows conventional part number.

Silicon Junction FETs (Small Signal)



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