

2SK1070

Silicon N-Channel Junction FET

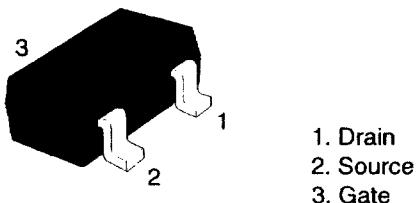
HITACHI

Application

Low frequency / High frequency amplifier

Outline

MPAK



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Gate to drain voltage	V _{GDO}	-22	V
Gate to source voltage	V _{GSO}	-22	V
Drain current	I _D	50	mA
Gate current	I _G	10	mA
Channel power dissipation	P _{ch}	150	mW
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Gate cutoff current	I _{GSS}	—	—	-10	nA	V _{GS} = -15 V, V _{DS} = 0
Gate to source breakdown voltage	V _{(BR)GSS}	-22	—	—	V	I _G = -10 μA, V _{DS} = 0
Drain current	I _{DSS} ^{*1}	6	—	40	mA	V _{DS} = 5 V, V _{GS} = 0, Pulse test
Gate to source cutoff voltage	V _{GS(off)}	0	—	-2.5	V	V _{DS} = 5 V, I _D = 10 μA
Forward transfer admittance	y _{fs}	20	30	—	mS	V _{DS} = 5 V, V _{GS} = 0, f = 1 kHz
Input capacitance	C _{iss}	—	9	—	pF	V _{DS} = 5 V, V _{GS} = 0, f = 1 MHz

Note: 1. The 2SK1070 is grouped by I_{DSS} as follows.

Grade	B	C	D	E
Mark	PIB	PIC	PID	PIE
I _{DSS}	6 to 14	12 to 22	18 to 30	27 to 40

See characteristic curves of 2SK435.

