## 2SK1070

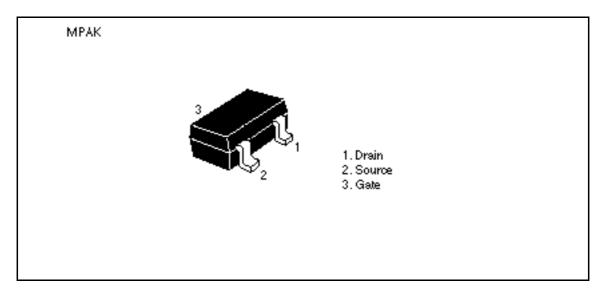
Silicon N-Channel Junction FET

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## Application

Low frequency / High frequency amplifier

### Outline





## 2SK1070

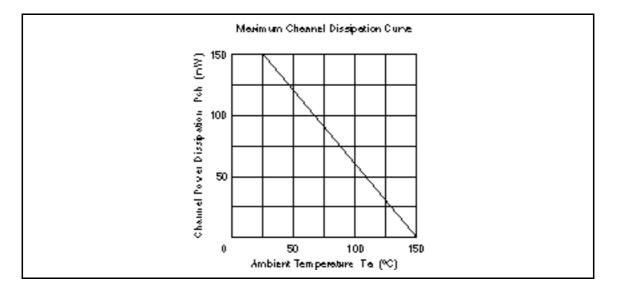
## **Absolute Maximum Ratings** (Ta = 25°C)

Item	Symbol	Ratings	Unit
Gate to drain voltage	$V_{GDO}$	-22	V
Gate to source voltage	V <sub>GSO</sub>	-22	V
Drain current	I <sub>D</sub>	50	mA
Gate current	I <sub>G</sub>	10	mA
Channel power dissipation	Pch	150	mW
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	°C

## **Electrical Characteristics** (Ta = $25^{\circ}$ C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions		
Gate cutoff current	I <sub>GSS</sub>	_	_	-10	nA	$V_{GS} = -15 V, V_{DS} = 0$		
Gate to source breakdown voltage	$V_{(BR)GSS}$	-22	_	—	V	$I_{g} = -10 \ \mu A, \ V_{DS} = 0$		
Drain current	I <sub>DSS</sub> *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	$V_{\text{DS}}$ = 5 V, $I_{\text{D}}$ = 10 $\mu$ A		
Forward transfer admittance	y <sub>fs</sub>	20	30	—	mS	$V_{DS} = 5 V, V_{GS} = 0, f = 1 \text{ kHz}$		
Input capacitance	Ciss	_	9	—	рF	$V_{DS} = 5 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$		
Note: 1. The 2SK1070 is grouped by I <sub>DSS</sub> as follows.								
Grade B	0	D		E				
Mark PIB F	PIC	PID		PIE				
I <sub>DSS</sub> 6 to 14	12 to 22	18 to 30	C	27 to 40				

See characteristic curves of 2SK435.



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