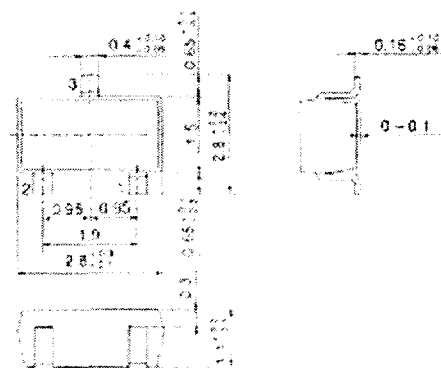


2SK1070

SILICON N-CHANNEL JUNCTION FET

LOW FREQUENCY/HIGH FREQUENCY
AMPLIFIER



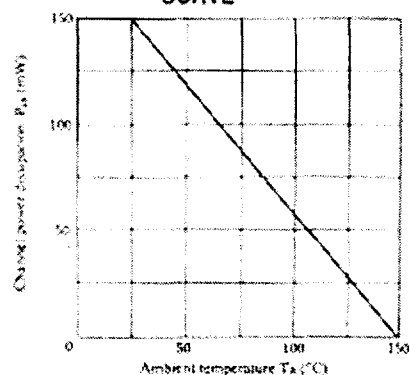
(MPAK)

1. Drain
 2. Source
 3. Gate
- (Dimensions in mm)

■ ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

Item	Symbol	2SK1070	Unit
Gate to drain voltage	V_{GDO}	-22	V
Gate to source voltage	V_{GSD}	-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	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

MAXIMUM CHANNEL DISSIPATION CURVE



■ ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

Item	Symbol	Test Condition	min.	typ.	max.	Unit
Gate cutoff current	I_{GSS}	$V_{GS} = -15\text{V}, V_{DS} = 0$	—	—	-10	nA
Gate to source breakdown voltage	V_{GSS}	$I_G = -10\mu\text{A}, V_{DS} = 0$	-22	—	—	V
Drain current	I_{DSS}^*	$V_{DS} = 5\text{V}, V_{GS} = 0, \text{Pulse Test}$	5	—	40	mA
Gate to source cutoff voltage	$V_{GS(off)}$	$V_{DS} = 5\text{V}, I_D = 10\mu\text{A}$	0	—	-2.5	V
Forward transfer admittance	$ y_{fs} $	$V_{DS} = 5\text{V}, V_{GS} = 0, f = 1\text{kHz}$	20	30	—	mS
Input capacitance	C_{iss}	$V_{DS} = 5\text{V}, V_{GS} = 0, f = 1\text{MHz}$	—	9	—	pF

* The 2SK1070 is grouped by I_{DSS} as follows.

Grade	B	C	D	E
Mark	P1B	P1C	P1D	P1E
I_{DSS}	6 to 14	12 to 22	18 to 30	27 to 40

■ See characteristic curves of 2SK435.