2SK217

Silicon N-Channel Junction FET

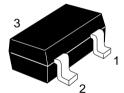
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Application

VHF amplifier

Outline

MPAK



- 1. Gate
- 2. Drain
- 3. Source



2SK217

Absolute Maximum Ratings $(Ta = 25^{\circ}C)$

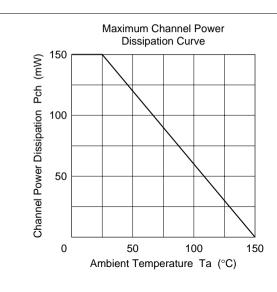
Item	Symbol	Ratings	Unit
Gate to drain current	V_{GDO}	-30	V
Drain current	I _D	20	mA
Gate current	I _G	10	mA
Channel power dissipation	Pch	150	mW
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	°C

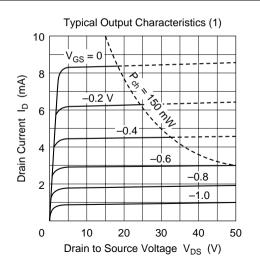
Electrical Characteristics (Ta = 25°C)

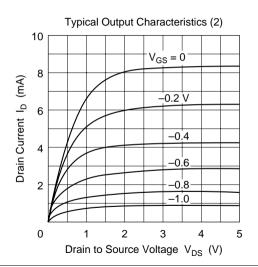
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Gate to drain breakdown voltage	$V_{(BR)GDO}$	-30	_	_	V	$I_G = -100 \mu A$
Gate cutoff current	I _{GSS}	_	_	-10	nA	$V_{GS} = -0.5 \text{ V}, V_{DS} = 0$
Gate to source cutoff voltage	$V_{GS(off)}$	_	_	-2.5	V	$V_{DS} = 5 \text{ V}, I_{D} = 10 \mu\text{A}$
Drain current	I _{DSS} *1	2.5	_	12	mA	$V_{DS} = 5 \text{ V}, V_{GS} = 0$
Forward transfer admittance	$ y_{fs} $	_	8.0		mS	$V_{DS} = 5 \text{ V}, V_{GS} = 0, f = 1 \text{ kHz}$
Reverse transfer capacitance	Crss	_	0.1	_	pF	$V_{DS} = 5 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$

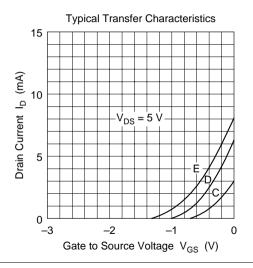
Note: 1. The 2SK217 is grouped by I_{DSS} as follows.

Grade	С	D	E
Mark	ZC	ZD	ZE
I _{DSS}	2.5 to 5	4 to 8	6 to 12

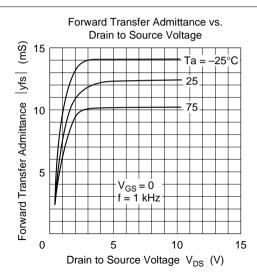


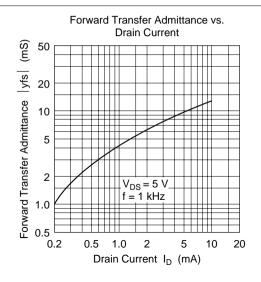


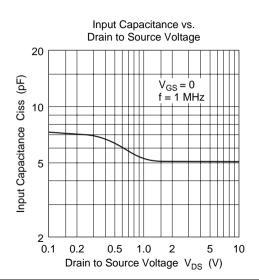


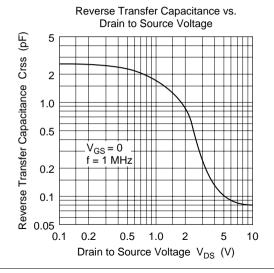


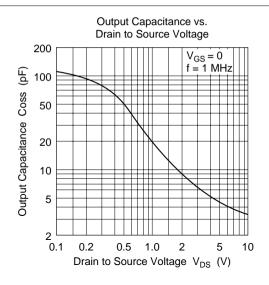
2SK217

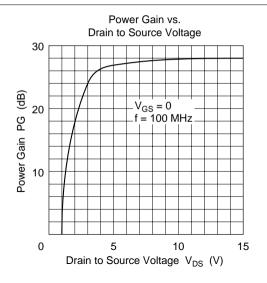


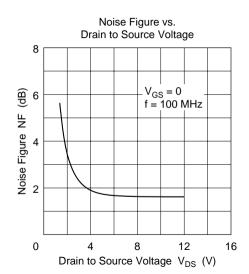








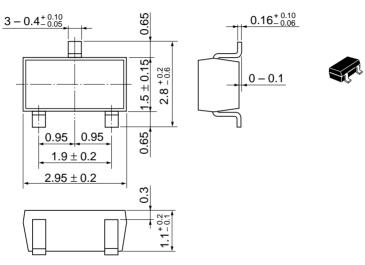




Power Gain and Noise Figure **Test Circuit**

 $C_1,\,C_2:0$ to 30pF Variable Air $L_1:3.5$ T $\phi 1$ mm Copper Ribbon, Tin plated 10 mm Inside dia. $L_2:4.5$ T $\phi 1$ mm Copper Ribbon, Tin plated 10 mm Inside dia.

Unit: mm



Hitachi Code	MPAK
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.011 g

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