
2SK322

Silicon N-Channel Junction FET

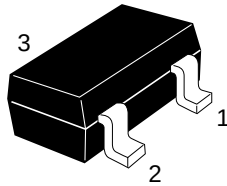
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Application

HF wide band amplifier

Outline

MPAK



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

2SK322

Absolute Maximum Ratings (Ta = 25°C)

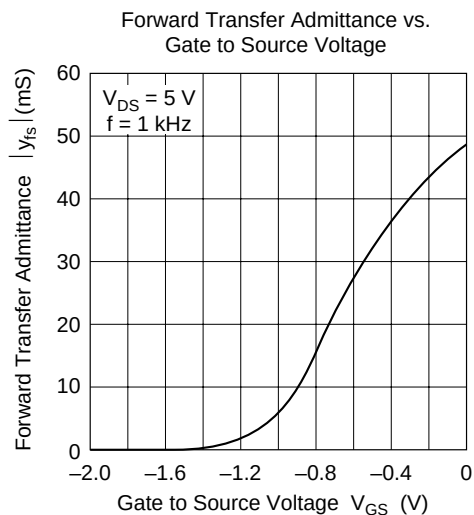
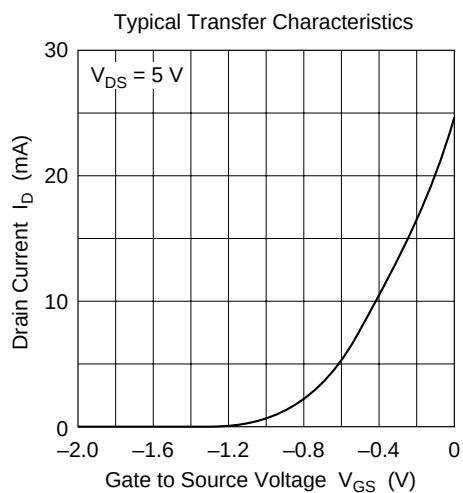
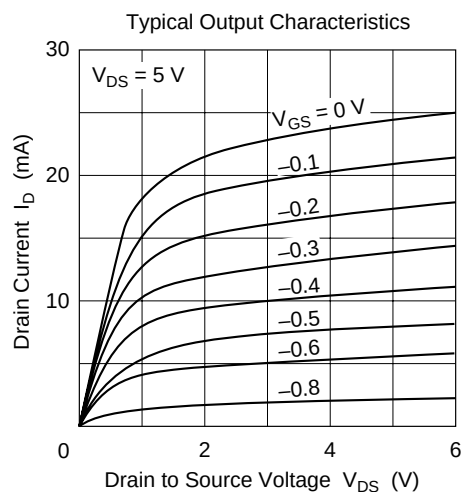
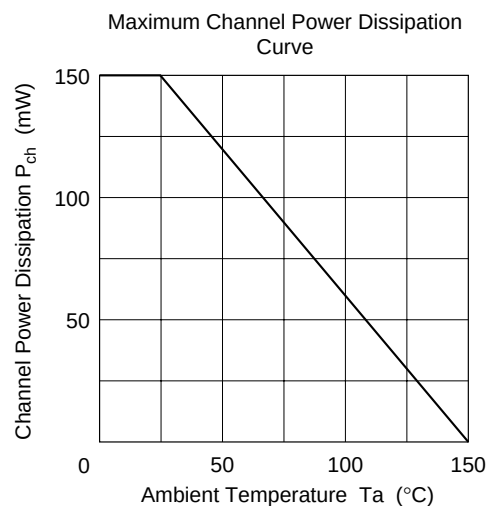
Item	Symbol	Ratings	Unit
Gate to drain voltage	V_{GDO}	-15	V
Gate to source voltage	V_{GSO}	-15	V
Drain current	I_D	50	mA
Gate current	I_G	5	mA
Channel power dissipation	Pch	150	mW
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-55 to +150	°C

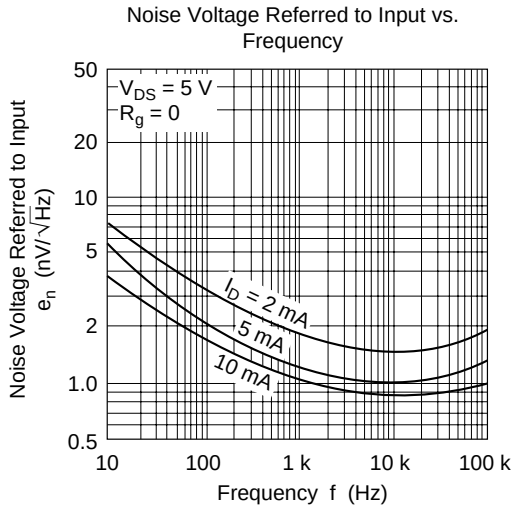
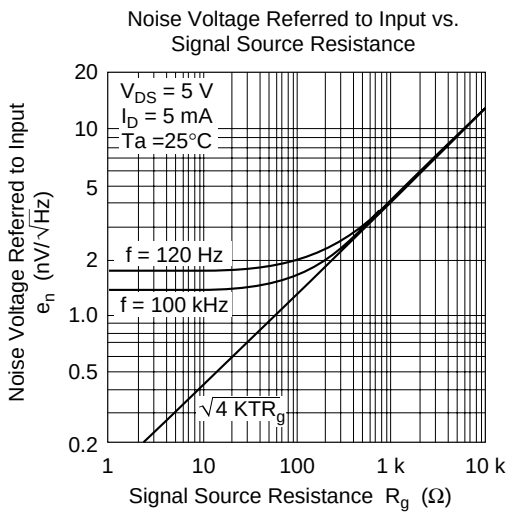
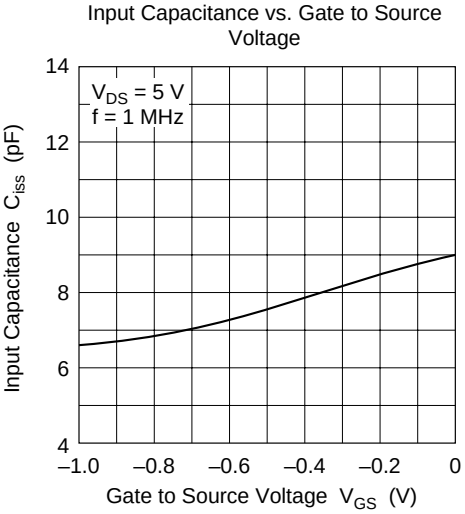
Electrical Characteristics (Ta = 25°C)

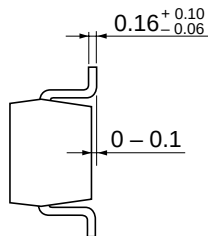
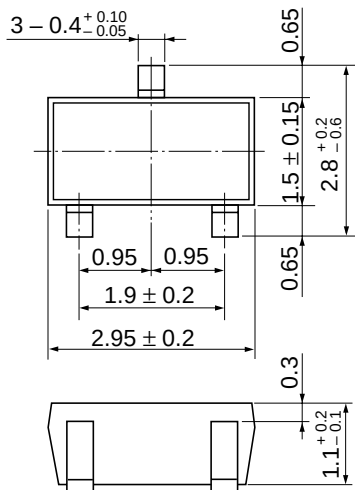
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Gate to drain breakdown voltage	$V_{(BR)GDO}$	-15	—	—	V	$I_G = -100\ \mu A$
Gate to source breakdown voltage	$V_{(BR)GSO}$	-15	—	—	V	$I_G = -100\ \mu A$
Gate cutoff current	I_{GSS}	—	—	-10	nA	$V_{GS} = -7\ V, V_{DS} = 0$
Drain current	I_{DSS}^{*1}	5	—	50	mA	$V_{DS} = 5\ V, V_{GS} = 0\ (\text{pulse})$
Gate to source cutoff voltage	$V_{GS(off)}$	—	—	-3.0	V	$V_{DS} = 5\ V, I_D = 100\ \mu A$
Forward transfer admittance	$ y_{fs} $	25	45	—	mS	$V_{DS} = 5\ V, V_{GS} = 0, f = 1\ \text{kHz}$

Note: 1. The 2SK322 is grouped by I_{DSS} as follows.

Grade	P	Q	R	S	T
Mark	WP	WQ	WR	WS	WT
I_{DSS}	5 to 16	14 to 24	20 to 32	28 to 42	36 to 50







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

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Hitachi, Ltd.

Semiconductor & Integrated Circuits.
Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan
Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

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For further information write to:

Hitachi Semiconductor (America) Inc. 179 East Tasman Drive, San Jose, CA 95134 Tel: <1> (408) 433-1990 Fax: <1> (408) 433-0223	Hitachi Europe GmbH Electronic components Group Dornacher Straße 3 D-85622 Feldkirchen, Munich Germany Tel: <49> (89) 9 9180-0 Fax: <49> (89) 9 29 30 00 Hitachi Europe Ltd. Electronic Components Group. Whitebrook Park Lower Cookham Road Maidenhead Berkshire SL6 8YA, United Kingdom Tel: <44> (1628) 585000 Fax: <44> (1628) 778322
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Hitachi Asia Pte. Ltd. 16 Collyer Quay #20-00 Hitachi Tower Singapore 049318 Tel: 535-2100 Fax: 535-1533 Hitachi Asia Ltd. Taipei Branch Office 3F, Hung Kuo Building. No.167, Tun-Hwa North Road, Taipei (105) Tel: <886> (2) 2718-3666 Fax: <886> (2) 2718-8180
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Hitachi Asia (Hong Kong) Ltd. Group III (Electronic Components) 7/F., North Tower, World Finance Centre, Harbour City, Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong Tel: <852> (2) 735 9218 Fax: <852> (2) 730 0281 Telex: 40815 HITEC HX
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