
2SK213, 2SK214, 2SK215, 2SK216

Silicon N-Channel MOS FET

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Application

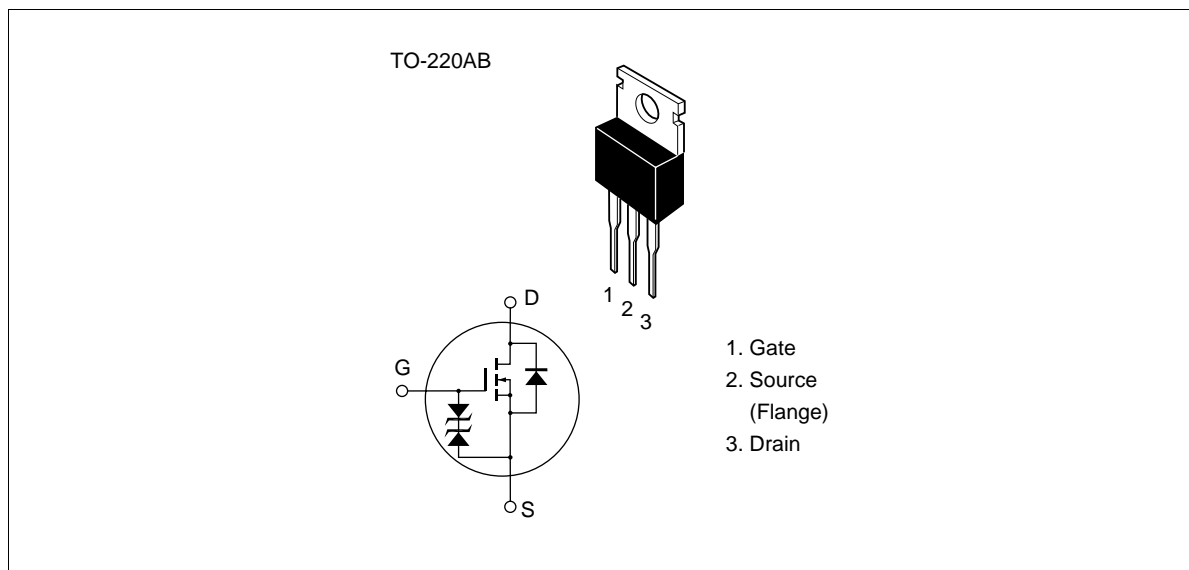
High frequency and low frequency power amplifier, high speed switching.

Complementary pair with 2SJ76, J77, J78, J79

Features

- Suitable for direct mounting
- High forward transfer admittance
- Excellent frequency response
- Enhancement-mode

Outline



2SK213, 2SK214, 2SK215, 2SK216

Absolute Maximum Ratings (Ta = 25°C)

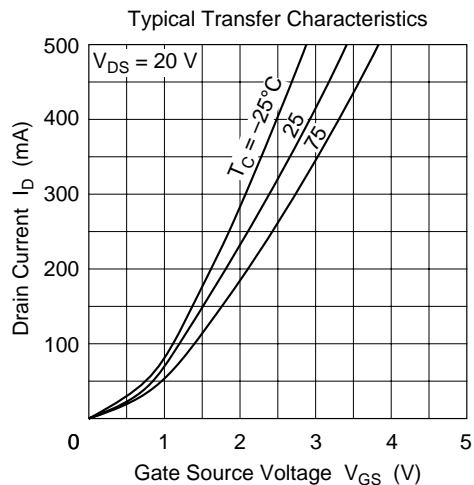
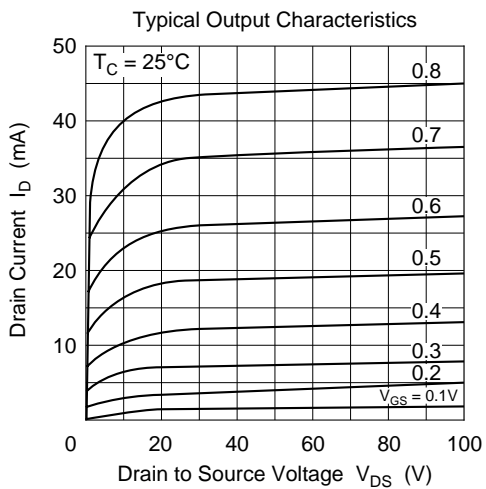
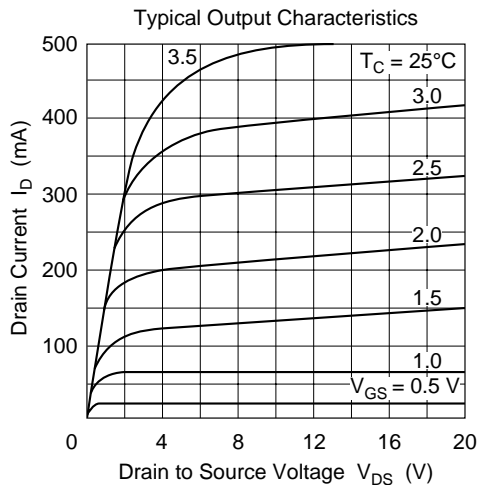
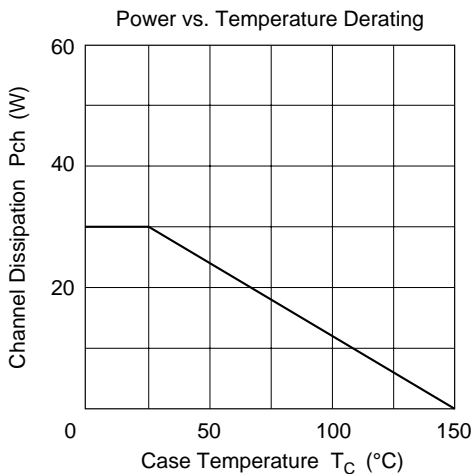
Item		Symbol	Ratings	Unit
Drain to source voltage	2SK213	V_{DSX}	140	V
	2SK214		160	
	2SK215		180	
	2SK216		200	
Gate to source voltage		V_{GSS}	±15	V
Drain current		I_D	500	mA
Body to drain diode reverse drain current		I_{DR}	500	mA
Channel dissipation		Pch	1.75	W
		Pch* ¹	30	W
Channel temperature		Tch	150	°C
Storage temperature		Tstg	-45 to +150	°C

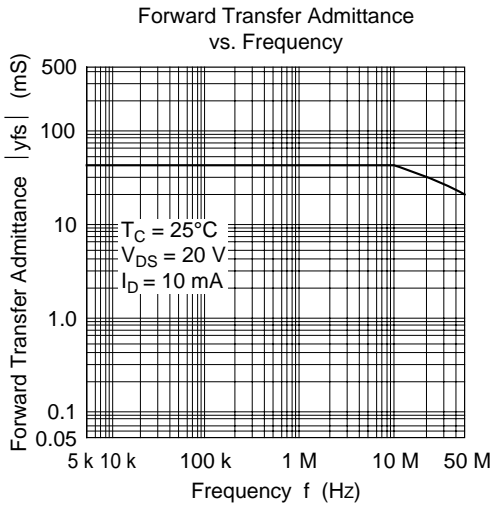
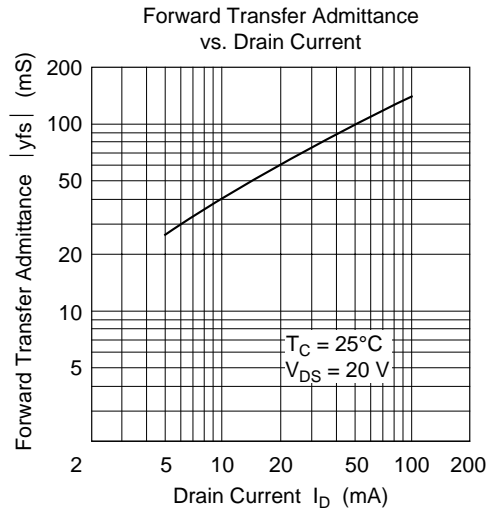
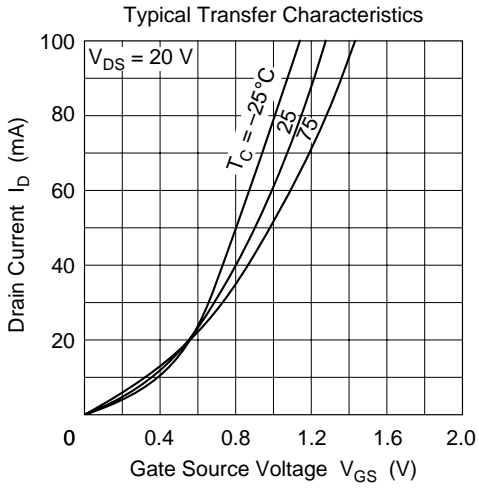
Note: 1. Value at $T_C = 25^\circ\text{C}$

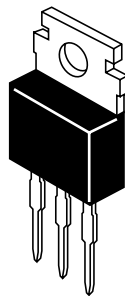
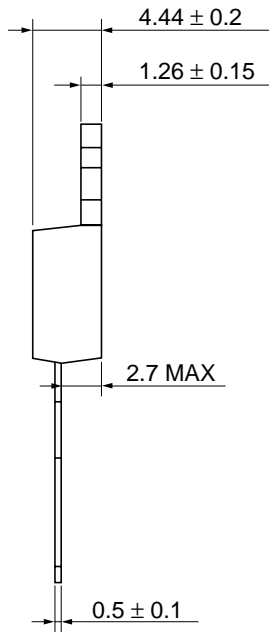
Electrical Characteristics (Ta = 25°C)

Item		Symbol	Min	Typ	Max	Unit	Test conditions
Drain to source breakdown voltage	2SK213	$V_{(BR)DSX}$	140	—	—	V	$I_D = 1 \text{ mA}, V_{GS} = -2 \text{ V}$
	2SK214		160	—	—	V	
	2SK215		180	—	—	V	
	2SK216		200	—	—	V	
Gate to source breakdown voltage		$V_{(BR)GSS}$	±15	—	—	V	$I_G = \pm 10 \mu\text{A}, V_{DS} = 0$
Gate to source voltage		$V_{GS(on)}$	0.2	—	1.5	V	$I_D = 10 \text{ mA}, V_{DS} = 10 \text{ V}^{*1}$
Drain to source saturation voltage		$V_{DS(sat)}$	—	—	2.0	V	$I_D = 10 \text{ mA}, V_{GD} = 0^{*1}$
Forward transfer admittance		$ y_{fs} $	20	40	—	mS	$I_D = 10 \text{ mA}, V_{DS} = 20 \text{ V}^{*1}$
Input capacitance		Ciss	—	90	—	pF	$I_D = 10 \text{ mA}, V_{DS} = 10 \text{ V},$
Reverse transfer capacitance		Crss	—	2.2	—	pF	$f = 1 \text{ MHz}$

Note: 1. Pulse test







Hitachi Code	TO-220AB
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	1.8 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

URL North America : <http://semiconductor.hitachi.com/>
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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

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

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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