Silicon N-Channel MOS FET

HITACHI

Application

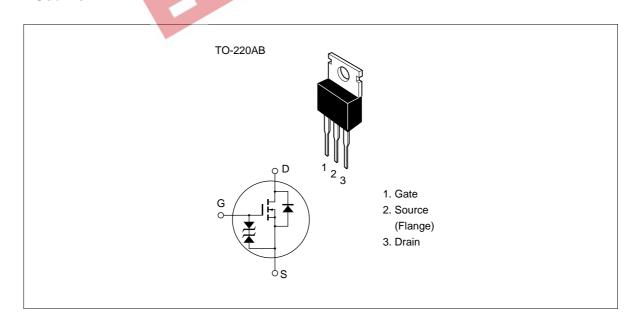
High frequency and low frequency power amplifier, high speed switching. · Com.cn

Complementary pair with 2SJ76, J77, J78, J79

Features

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

Outline





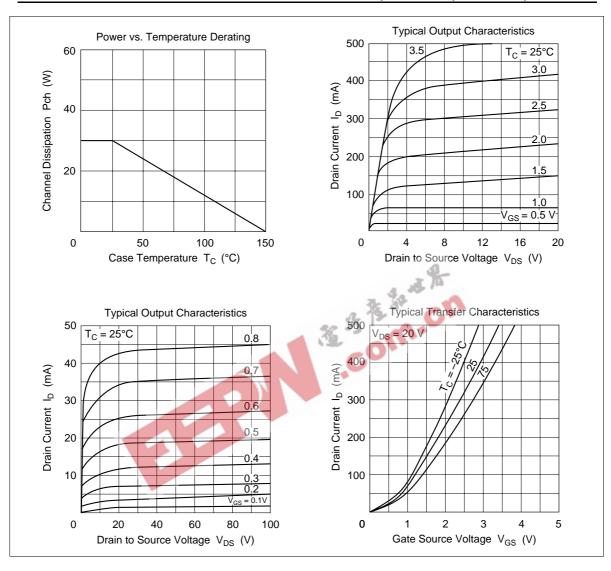
Absolute Maximum Ratings $(Ta = 25^{\circ}C)$

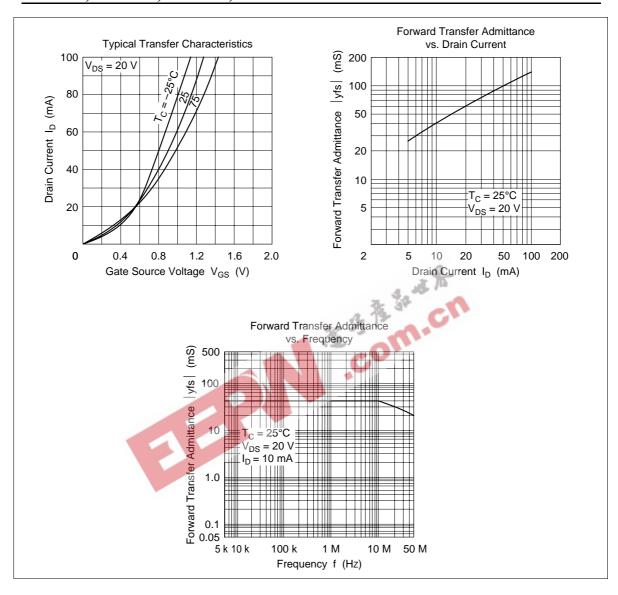
Item		Symbol		Rating	gs Unit
Drain to source voltage	2SK213	V_{DSX}		140	V
	2SK214	<u> </u>	-	160	
	2SK215	<u> </u>	-	180	
	2SK216	<u> </u>		200	
Gate to source voltage		V _{GSS}	:	±15	V
Drain current		I _D	;	500	mA
Body to drain diode reverse	I _{DR}	;	500	mA	
Channel dissipation		Pch		1.75	W
		Pch*1		30	W
Channel temperature		Tch		150	°C
Storage temperature		Tstg	- 4	-45 to	+150 °C
Note: 1. Value at $T_c = 2$ Electrical Characterical		13	COL	n.	
Item	Symbol Min	Тур	Max U	Init	Test conditions

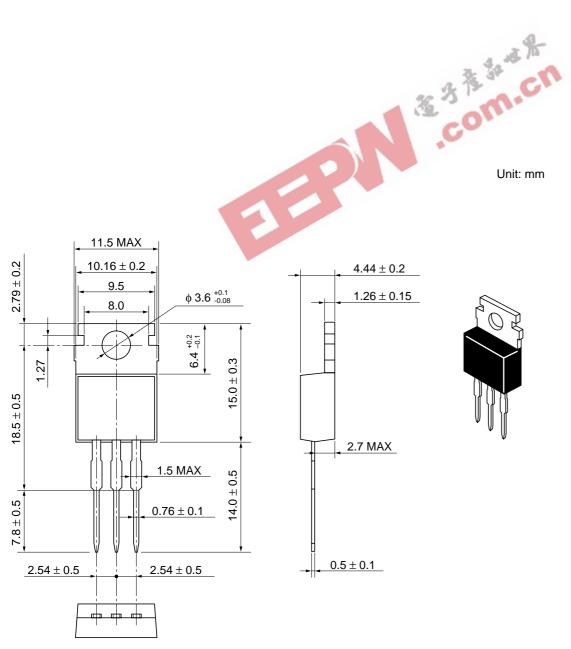
Electrical Characteristics (Ta = 25°C)

Item		Symbol	Min	Тур	Max	Unit	Test conditions
Drain to source	2SK213	V _{(BR)DSX}	140	_	_	V	$I_D = 1 \text{ mA}, V_{GS} = -2 \text{ V}$
breakdown voltage	2SK214		160	_	_	V	
	2SK215		180	_	_	V	
	2SK216	_	200	_	_	V	
Gate to source brea voltag	kdown	$V_{(BR)GSS}$	±15	_	_	V	$I_{G} = \pm 10 \ \mu A, \ V_{DS} = 0$
Gate to source voltage		V _{GS(on)}	0.2	_	1.5	V	$I_D = 10 \text{ mA}, V_{DS} = 10 \text{ V}^{*1}$
		$V_{DS(sat)}$	_	_	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 MHz

Note: 1. Pulse test







Hitachi Code	TO-220AB
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	1 8 a

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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 URI

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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 Stra§e 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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