Silicon P-Channel MOS FET

HITACHI

Application

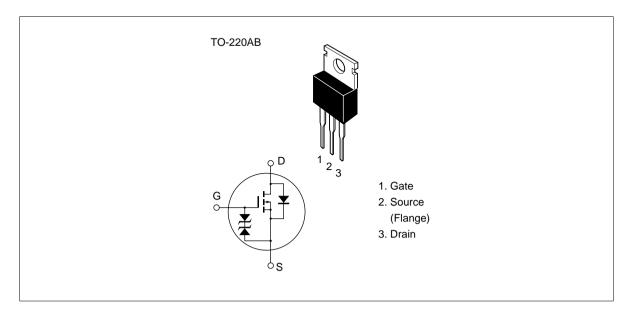
High frequency and low frequency power amplifier, high speed power switching

Complementary pair with 2SK213, 2SK214, 2SK215, 2SK216

Features

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

Outline





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

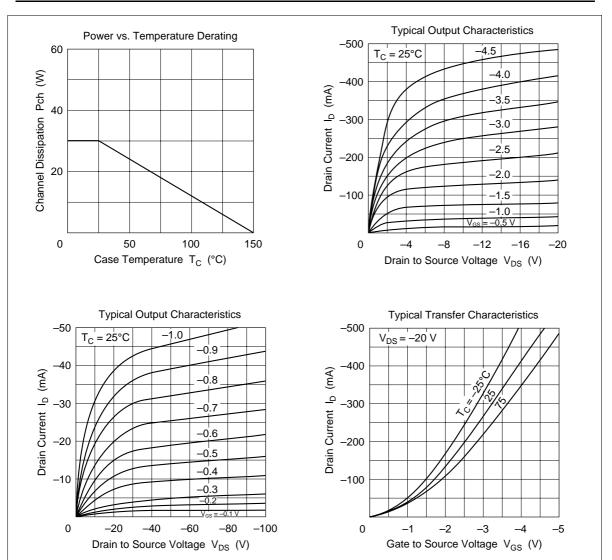
Item		Symbol	Ratings	Unit
Drain to source voltage	2SJ76	V _{DSX}	-140	V
	2SJ77		-160	
	2SJ78		-180	
	2SJ79		-200	
Gate to source voltage		V _{GSS}	±15	V
Drain current		I _D	-500	mA
Body to drain diode reverse drain current		I _{DR} –500		mA
Channel dissipation		Pch	1.75	W
		Pch*1	30	W
Channel temperature		Tch	150	°C
Storage temperature		Tstg	-45 to +150	°C

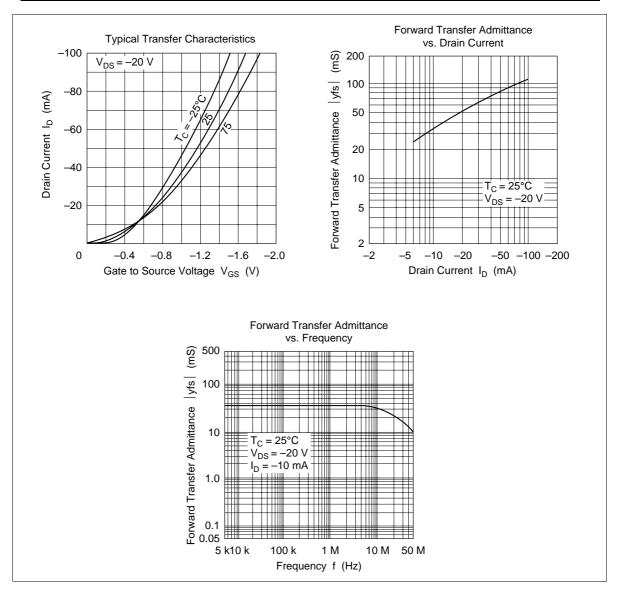
Note: 1. Value at $T_c = 25^{\circ}C$

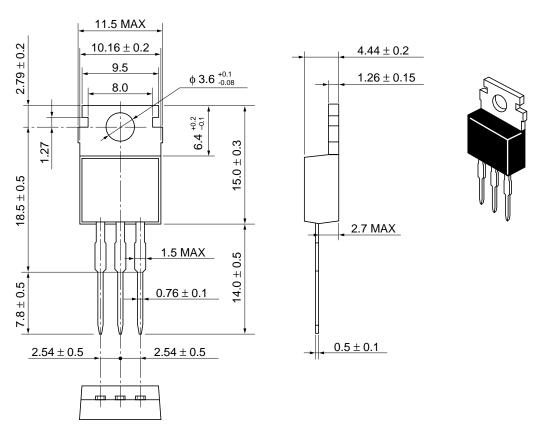
Electrical Characteristics (Ta = 25°C)

ltem		Symbol	Min	Тур	Max	Unit	Test conditions
Drain to source	2SJ76	$V_{(BR)DSX}$	-140	_		V	$V_{gs} = 2 V, I_{d} = -1 mA$
breakdown voltage	2SJ77		-160	_	_	V	
	2SJ78		-180	_		V	
	2SJ79		-200	_		V	
Gate to source brea voltage	kdown	$V_{(BR)GSS}$	±15	_	_	V	$I_{\rm G}=\pm 10~\mu A,~V_{\rm DS}=0$
Gate to source volta	ige	V _{GS(on)}	-0.2	_	-1.5	V	$I_{\rm D} = -10$ mA, $V_{\rm DS} = -10$ V ^{*1}
Drain to source satu voltage	iration	$V_{\text{DS(sat)}}$	_	_	-2.0	V	$I_{\rm D} = -10$ mA, $V_{\rm GD} = 0^{*1}$
Forward transfer ad	mittance	y _{fs}	20	35		mS	$I_{\rm D} = -10$ mA, $V_{\rm DS} = -20$ V ^{*1}
Input capacitance		Ciss	_	120	_	pF	$V_{\rm DS} = -10 \text{ V}, \text{ I}_{\rm D} = -10 \text{ mA},$
Reverse transfer capacitance		Crss	_	4.8		pF	f = 1 MHz
Nata: 4 Dulas ta	-4						

Note: 1. Pulse test







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

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