

2SK213, 2SK214, 2SK215, 2SK216

Silicon N-Channel MOS FET

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

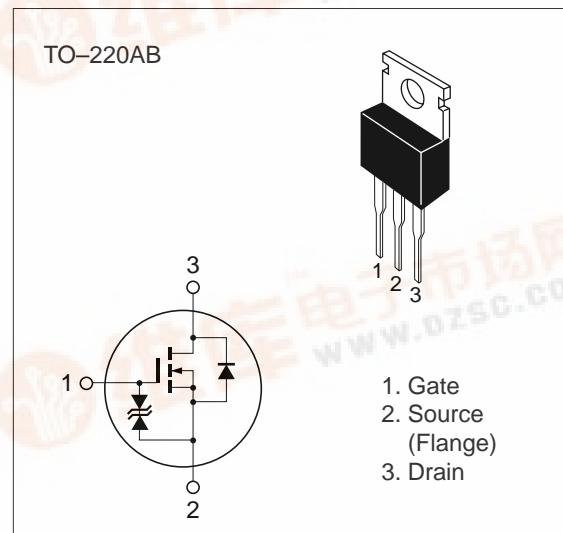


Table 1 Absolute Maximum Ratings (Ta = 25°C)

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*	30	W
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-45 to +150	°C

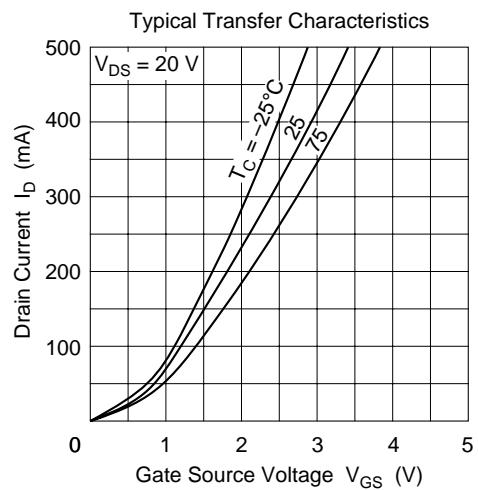
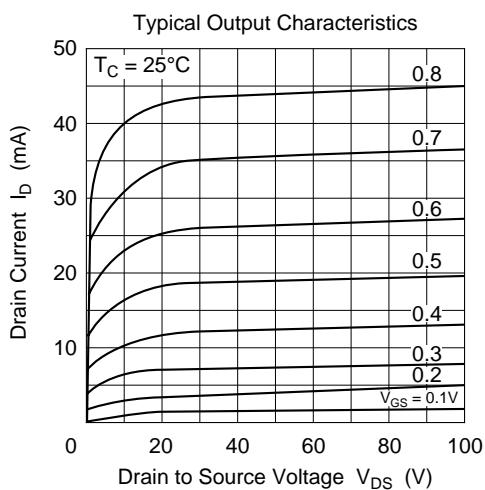
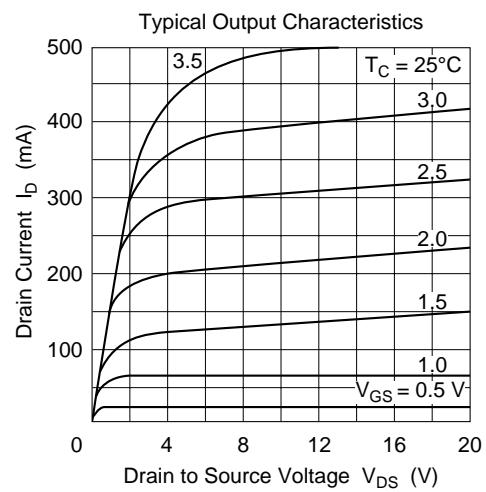
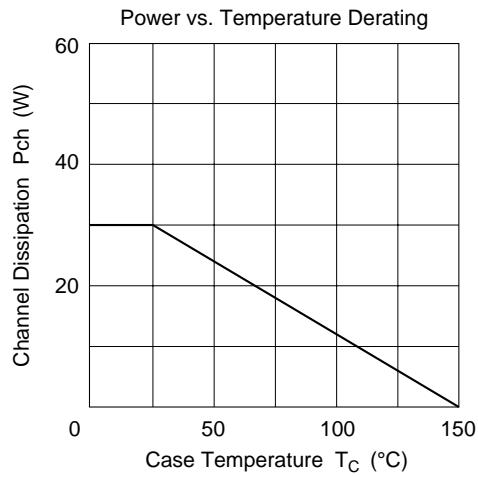
* Value at T_C = 25 °C

Table 2 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 mA, V _{GS} = -2 V
	2SK214		160	—	—	V	
	2SK215		180	—	—	V	
	2SK216		200	—	—	V	
Gate to source breakdown voltage		V _{(BR)GSS}	±15	—	—	V	I _G = ±10 µA, V _{DS} = 0
Gate to source voltage		V _{GS(on)}	0.2	—	1.5	V	I _D = 10 mA, V _{DS} = 10 V *
Drain to source saturation voltage		V _{DS(sat)}	—	—	2.0	V	I _D = 10 mA, V _{GD} = 0 *
Forward transfer admittance		y _{fs}	20	40	—	mS	I _D = 10 mA, V _{DS} = 20 V *
Input capacitance		C _{iss}	—	90	—	pF	I _D = 10 mA, V _{DS} = 10 V,
Reverse transfer capacitance		C _{rss}	—	2.2	—	pF	f = 1 MHz

* Pulse Test

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