TOSHIBA Field Effect Transistor Silicon P Channel MOS Type

2SJ200

High Power Amplifier Application

Unit: mm

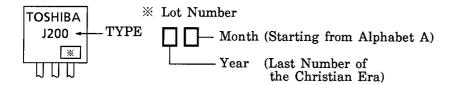
 $\begin{array}{ll} \bullet & \mbox{High breakdown voltage} & : \mbox{$V_{DSS} = -180$ V$} \\ \bullet & \mbox{High forward transfer admittance} & : \mbox{$|Y_{fs}| = 4.0$ S (typ.)$} \\ \end{array}$

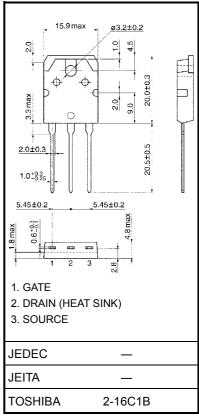
• Complementary to 2SK1529

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Drain-source voltage	V_{DSS}	-180	V
Gate-source voltage	V_{GSS}	±20	V
Drain current (Note 1)	I _D	-10	Α
Drain power dissipation (Tc = 25°C)	P_{D}	120	W
Channel temperature	T _{ch}	150	°C
Storage temperature range	T _{stg}	-55~150	°C

Marking





Weight: 4.6 g (typ.)

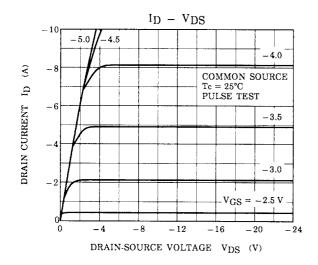
Electrical Characteristics (Ta = 25°C)

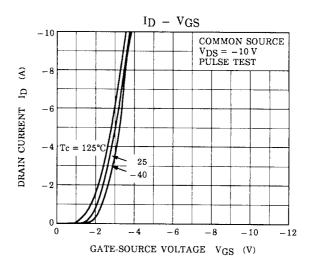
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Drain cut-off current	I _{DSS}	$V_{DS} = -180 \text{ V}, V_{GS} = 0$	_	_	-1.0	mA
Gate leakage current	I _{GSS}	V _{DS} = 0, V _{GS} = ±20 V	_	_	±0.5	μΑ
Drain-source breakdown voltage	V _{(BR)DSS}	$I_D = -10 \text{ mA}, V_{GS} = 0$	-180	_	_	٧
Gate-source cut-off voltage (Note 2)	V _{GS (OFF)}	V _{DS} = -10 V, I _D = -0.1 A	-0.8	_	-2.8	٧
Drain-source saturation voltage	V _{DS} (ON)	I _D = -6 A, V _{GS} = -10 V	_	-1.5	-5.0	V
Forward transfer admittance	Y _{fs}	$V_{DS} = -10 \text{ V}, I_D = -3 \text{ A}$	_	4.0	_	S
Input capacitance	C _{iss}	$V_{DS} = -30 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$	_	1300	_	
Output capacitance	C _{oss}	V _{DS} = -30 V, V _{GS} = 0, f = 1 MHz	_	350	_	pF
Reverse transfer capacitance	C _{rss}	$V_{DS} = -30 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$	_	200	_	

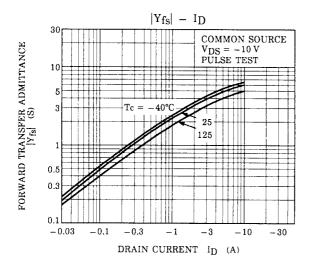
Note 1: Please use devices on condition that the channel temperature is below 150°C.

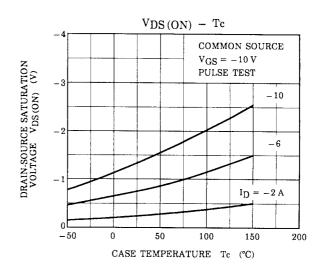
Note 2: V_{GS (OFF)} Classification O: -0.8~-1.6, Y: -1.4~-2.8

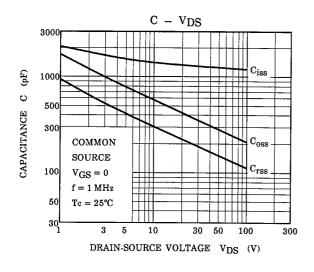
This transistor is an electrostatic sensitive device. Please handle with caution.

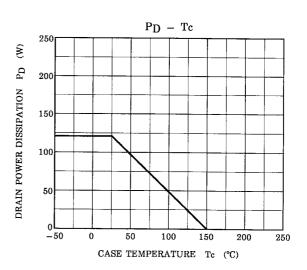


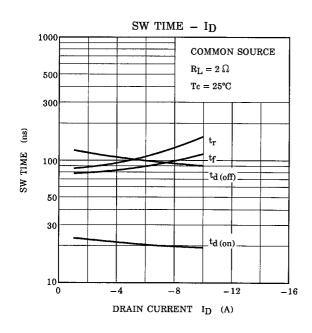


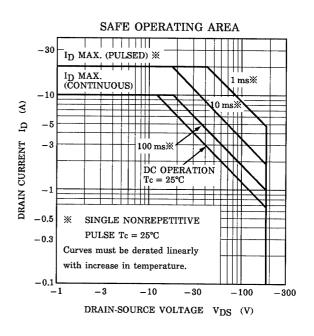




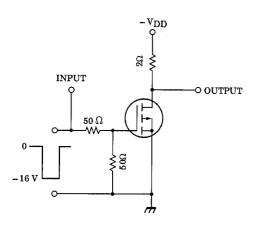






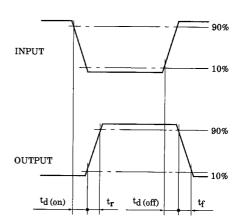


Switching Time Test Circuit



Waveforms

3



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