TOSHIBA Field Effect Transistor Silicon N Channel Junction Type

2SK246

For Constant Current, Impedance Converter and DC-AC High Input Impedance Amplifier Circuit Applications

- High breakdown voltage: $V_{\rm GDS} = -50 \text{ V}$
- High input impedance: $I_{GSS} = -1 \text{ nA (max) (V}_{GS} = -30 \text{ V)}$

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Gate-drain voltage	V_{GDS}	-50	V
Gate current	IG	10	mA
Drain power dissipation	P _D	300	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C

1. SOURCE
2. GATE
3. DRAIN

JEDEC TO-92

JEITA SC-43

TOSHIBA

Unit: mm

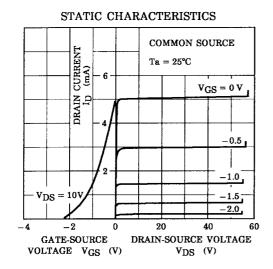
1. SOURCE
2. GATE
3. DRAIN

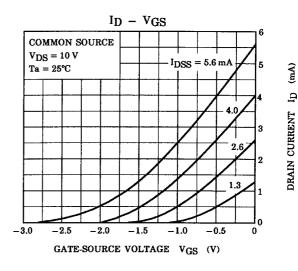
Weight: 0.21 g (typ.)

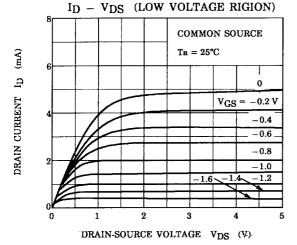
Electrical Characteristics (Ta = 25°C)

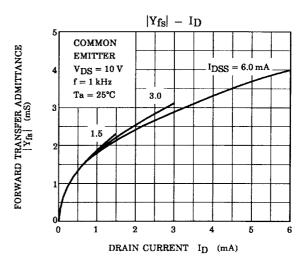
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Gate cut-off current	I _{GSS}	$V_{GS} = -30 \text{ V}, V_{DS} = 0$	_	_	-1.0	nA
Gate-drain breakdown voltage	V (BR) GDS	$V_{DS} = 0$, $I_G = -100 \mu A$	-50	_	_	V
Drain current	I _{DSS} (Note)	V _{DS} = 10 V, V _{GS} = 0	1.2	_	14	mA
Gate-source cut-off voltage	V _{GS} (OFF)	$V_{DS} = 10 \text{ V}, I_D = 0.1 \mu\text{A}$	-0.7	_	-6.0	V
Forward transfer admittance	Y _{fs}	$V_{DS} = 10 \text{ V}, V_{GS} = 0, f = 1 \text{ kHz}$	1.5	_	_	mS
Input capacitance	C _{iss}	V _{DS} = 10 V, V _{GS} = 0, f = 1 MHz	_	9.0	_	pF
Reverse transfer capacitance	C _{rss}	V _{DG} = 10 V, I _D = 0, f = 1 MHz	_	2.5		pF

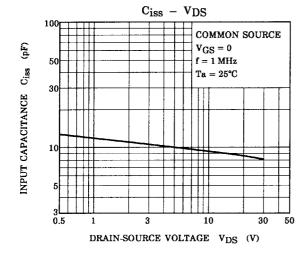
Note: IDSS classification Y: 1.2~3.0 mA, GR: 2.6~6.5 mA, BL: 6~14 mA

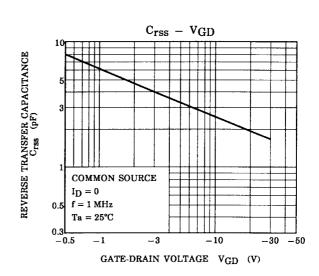






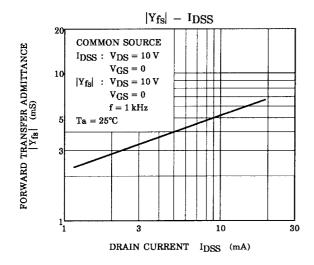


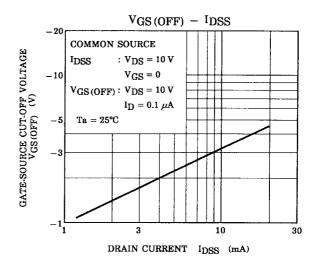


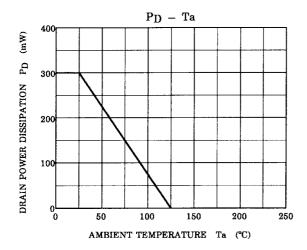


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