TOSHIBA Field Effect Transistor Silicon P Channel Junction Type

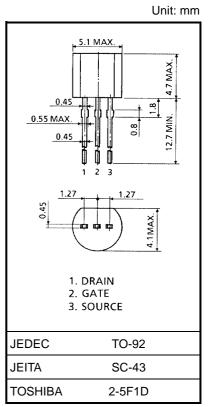
2SJ104

For Audio Amplifier, Analog Switch, Constant Current and Impedance Converter Applications

- High input impedance: $I_{GSS} = 1.0 \text{ nA} (max) (V_{GS} = 25 \text{ V})$
- Low RDS (ON) = 40 Ω (typ.) (IDSS = -5 mA)
- Complimentary to 2SK364

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Gate-drain voltage	V _{GDS}	25	V
Gate current	۱ _G	-10	mA
Drain power dissipation	PD	400	mW
Junction temperature	Тј	125	°C
Storage temperature range	T _{stg}	-55~125	°C



Weight: 0.21 g (typ.)

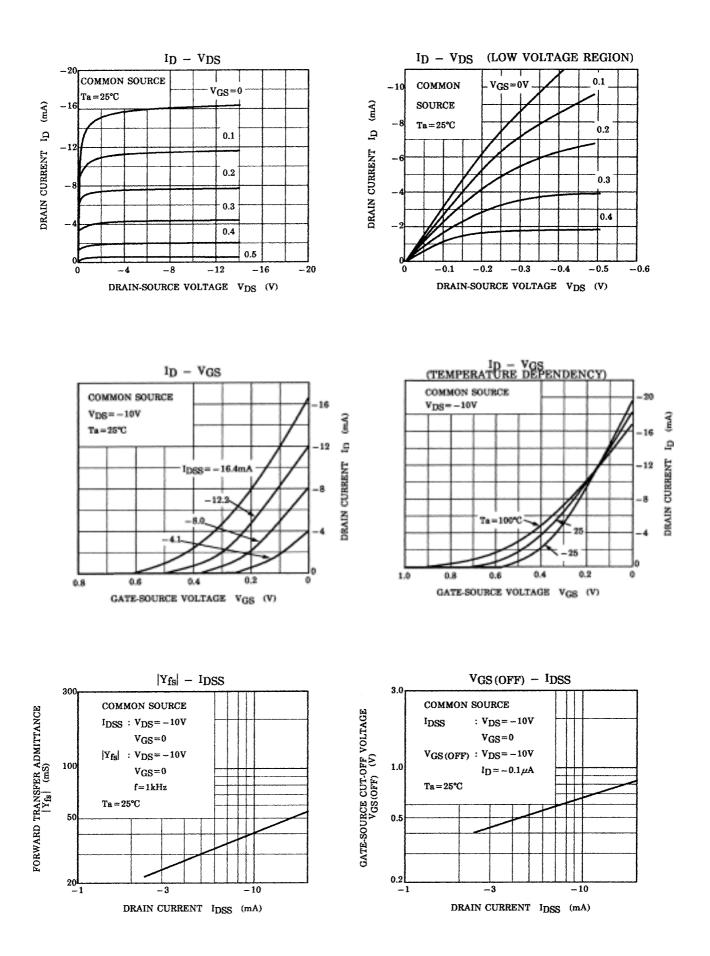
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Gate cut-off current	I _{GSS}	$V_{GS}=25~V,~V_{DS}=0$			1.0	nA
Gate-drain breakdown voltage	V (BR) GDS	$V_{DS}=0,I_G=100\;\mu A$	25			V
Drain current	I _{DSS} (Note 1)	$V_{DS} = -10 V, V_{GS} = 0$	-2.6	_	-20	mA
Gate-source cut-off voltage	V _{GS (OFF)}	$V_{DS} = -10 \text{ V}, \text{ I}_{D} = -0.1 \mu\text{A}$	0.2	_	2.0	V
Forward transfer admittance	Y _{fs}	$V_{DS} = -10 \ V, \ V_{GS} = 0, \ f = 1 \ kHz \label{eq:VDS}$ (Note 2)	12	30	_	mS
Input capacitance	C _{iss}	$V_{DS} = -10 V, V_{GS} = 0, f = 1 MHz$		105		pF
Reverse transfer capacitance	C _{rss}	$V_{DG} = -10 V, I_D = 0, f = 1 MHz$		32		pF
Drain-source ON resistance	R _{DS (ON)}	$V_{DS} = -10 \text{ mV}, V_{GS} = 0 \qquad (\text{Note 2})$		40		Ω

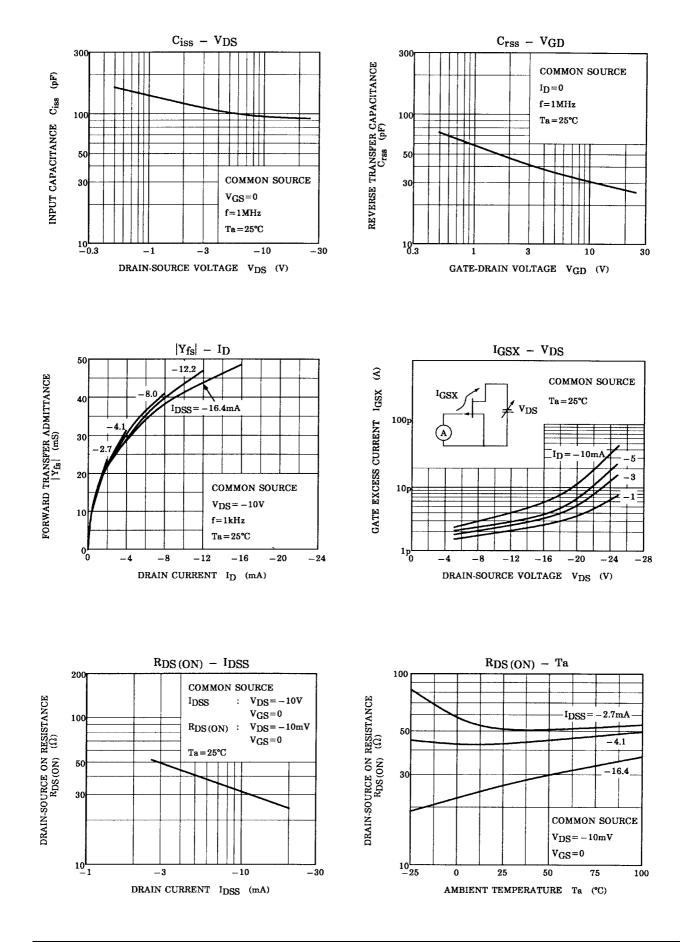
Note 1: I_{DSS} classification GR: -2.6~-6.5 mA, BL: -6~-12 mA, V: -10~-20 mA

Note 2: Condition of the typical value $I_{DSS} = -5 \text{ mA}$

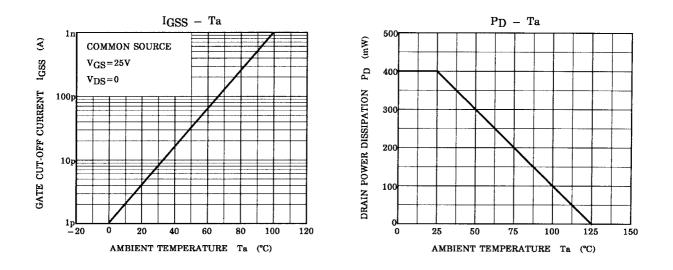
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