

این دیتاشیت توسط توکل الکترونیک تهیه و ارائه شده است.
جهت مشاهده قیمت، موجودی و ثبت سفارش این قطعه به وبسایت توکل الکترونیک مراجعه فرمایید.



مشاهده قیمت و خرید

برای خرید و مشاهده سایر محصولات کلیک کنید



TOSHIBA

2SJ107

TOSHIBA Field Effect Transistor Silicon P Channel Junction Type

2SJ107

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

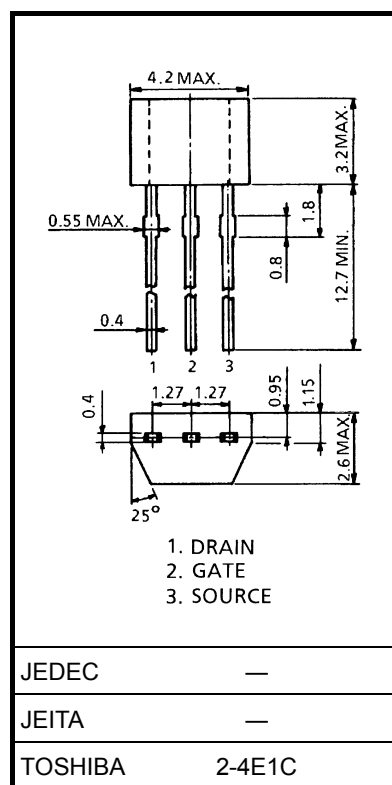
Unit: mm

- High input impedance: $I_{GSS} = 1.0 \text{ nA (max)}$ ($V_{GS} = 25 \text{ V}$)
- Low $R_{DS(ON)}$: $R_{DS(ON)} = 40 \Omega$ (typ.)
- Small package
- Complementary to 2SK366

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

Characteristics	Symbol	Rating	Unit
Gate-drain voltage	V_{GDS}	25	V
Gate current	I_G	-10	mA
Drain power dissipation	P_D	200	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55~125	$^\circ\text{C}$

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



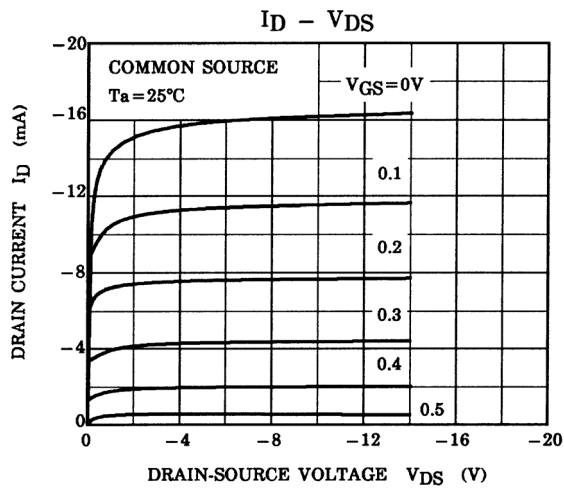
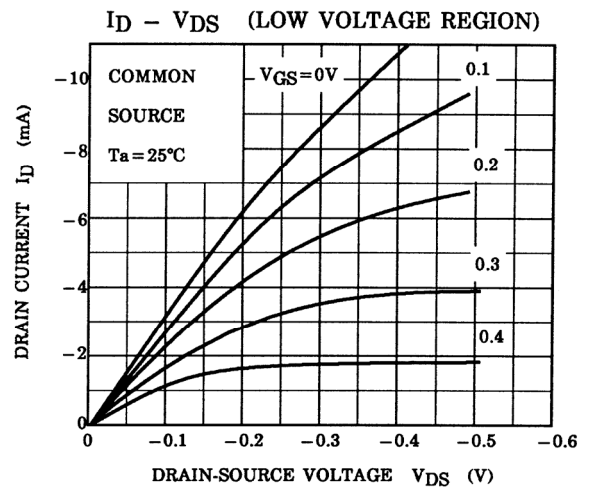
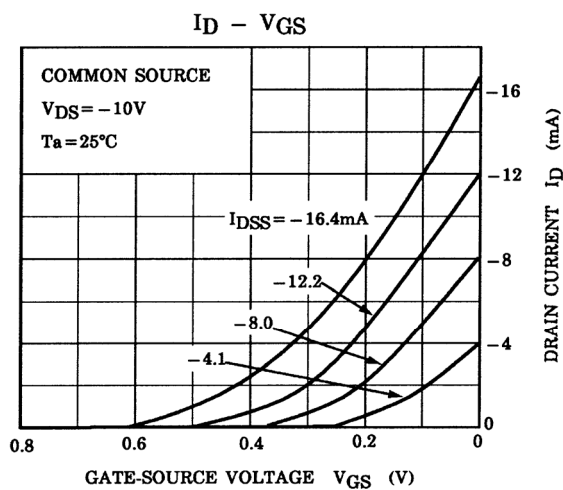
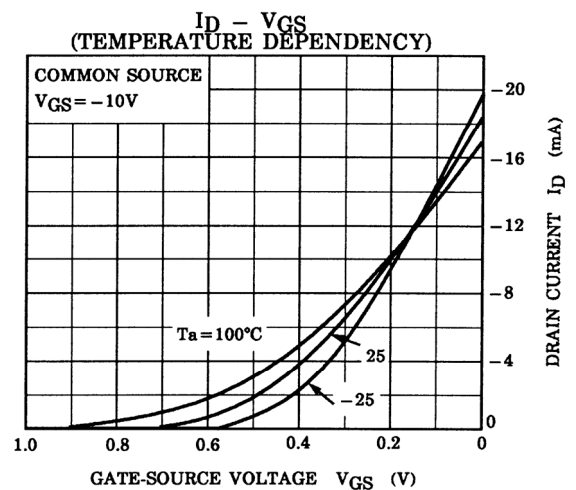
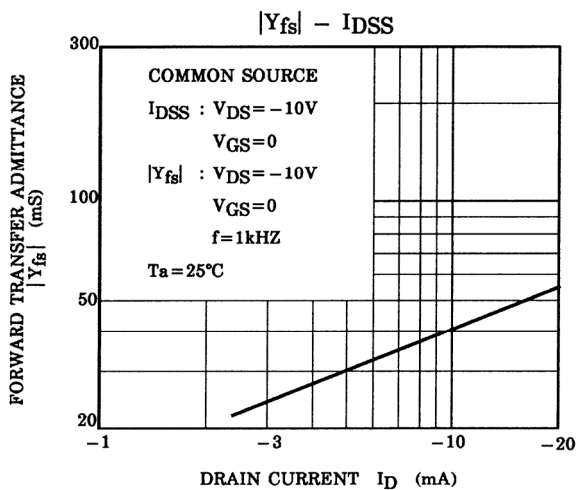
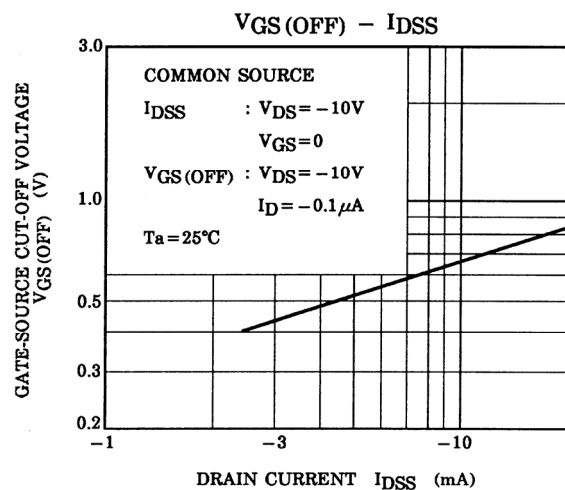
Weight: 0.13 g (typ.)

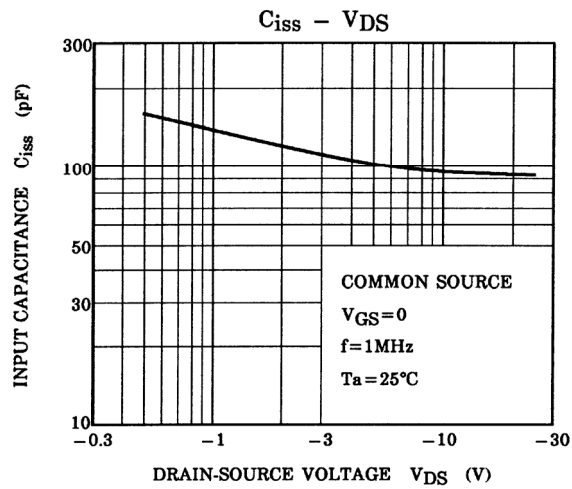
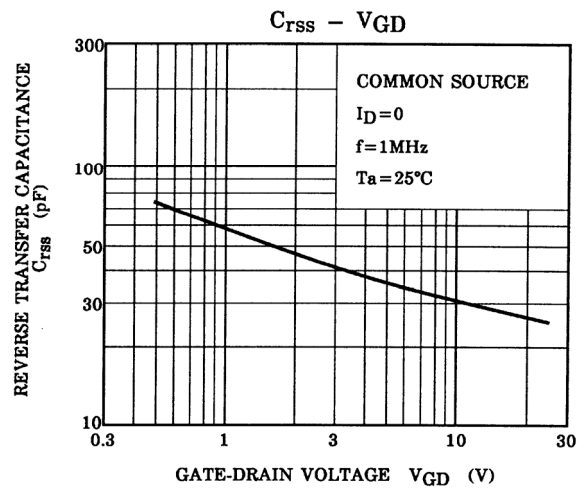
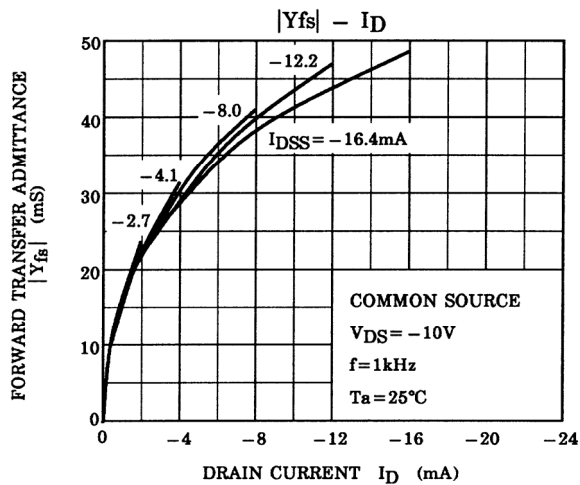
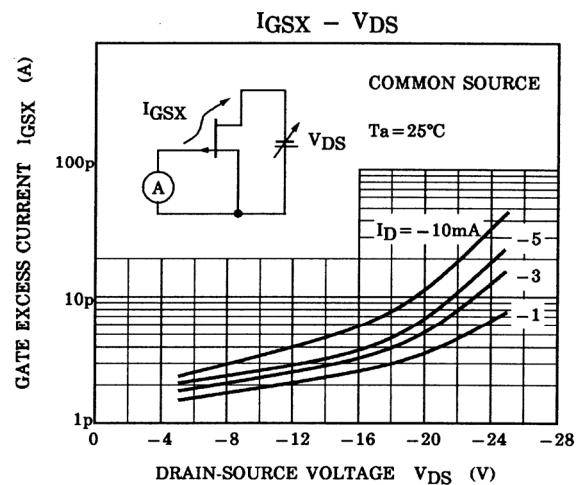
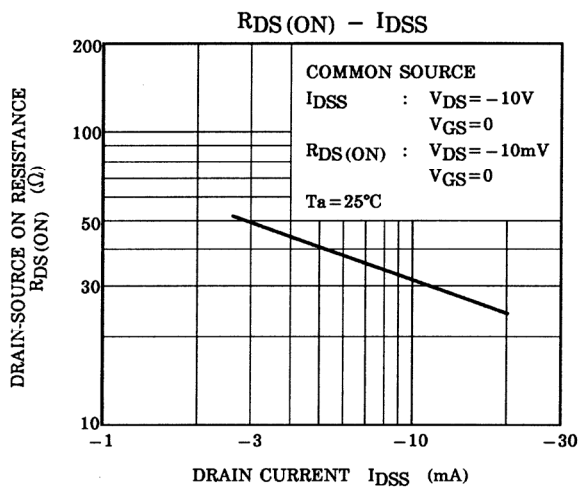
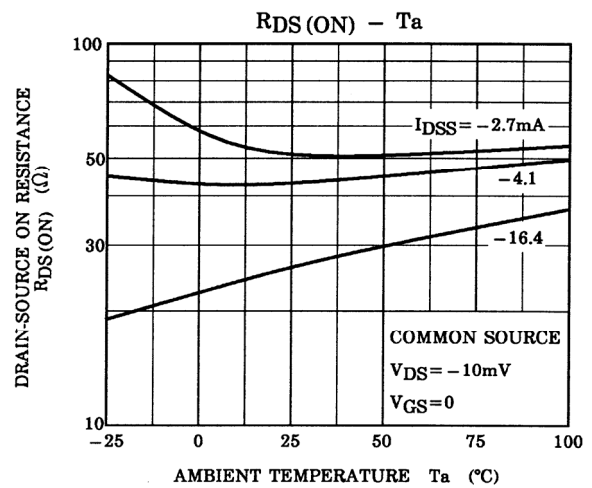
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

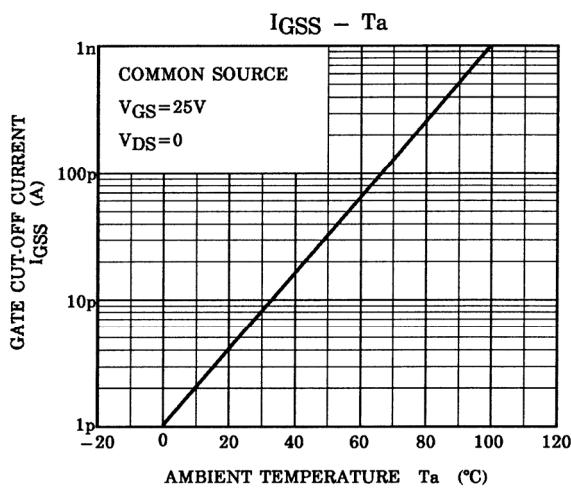
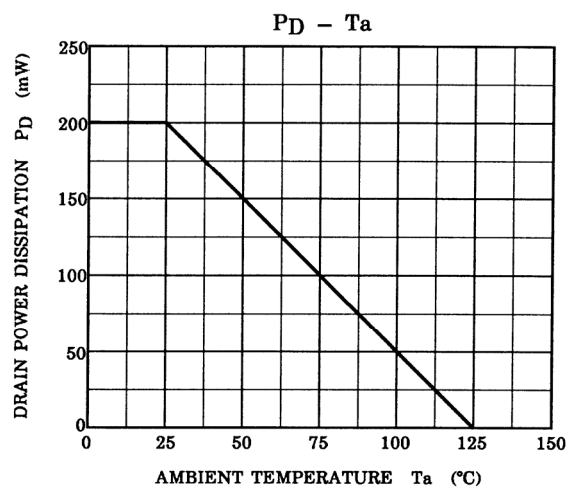
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Gate cut-off current	I_{GSS}	$V_{GS} = 25 \text{ V}, V_{DS} = 0$	—	—	1.0	nA
Gate-drain breakdown voltage	$V_{(BR)GDS}$	$V_{DS} = 0, I_G = 100 \mu\text{A}$	25	—	—	V
Drain current	I_{DSS} (Note 1)	$V_{DS} = -10 \text{ V}, V_{GS} = 0$	-2.6	—	-20	mA
Gate-source cut-off voltage	$V_{GS(OFF)}$	$V_{DS} = -10 \text{ V}, I_D = -0.1 \mu\text{A}$	0.2	—	2.0	V
Forward transfer admittance	$ Y_{fs} $	$V_{DS} = -10 \text{ V}, V_{GS} = 0, f = 1 \text{ kHz}$ (Note 2)	12	30	—	mS
Input capacitance	C_{iss}	$V_{DS} = -10 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$	—	105	—	pF
Reverse transfer capacitance	C_{rss}	$V_{GD} = 10 \text{ V}, I_D = 0, f = 1 \text{ MHz}$	—	32	—	pF
Drain-source ON resistance	$R_{DS(ON)}$	$V_{DS} = -10 \text{ mV}, V_{GS} = 0$ (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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20070701-EN GENERAL

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