TOSHIBA Field Effect Transistor Silicon N Channel Junction Type

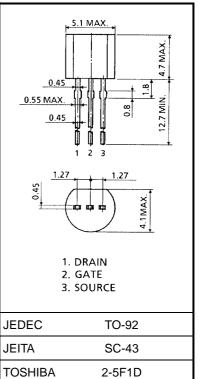
2SK363

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

- High breakdown voltage: $V_{GDS} = -40 V$
- High input impedance: $I_{GSS} = -1.0 \text{ nA} (max) (V_{GS} = -30 \text{ V})$
- Low RDS (ON): RDS (ON) = 20Ω (typ.) (IDSS = 15 mA)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Gate-drain voltage	V _{GDS}	-40	V
Gate current	۱ _G	10	mA
Drain power dissipation	PD	400	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



Weight: 0.21 g (typ.)

Electrical Characteristics (Ta = 25°C)

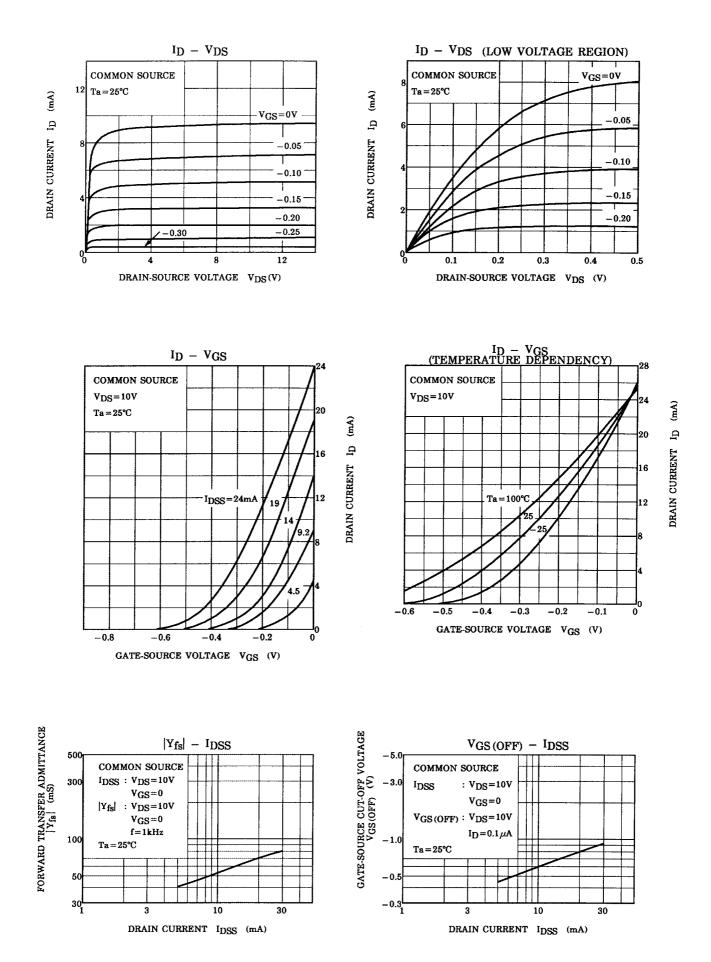
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Gate cut-off current	I _{GSS}	$V_{GS} = -30 \text{ V}, V_{DS} = 0$	_		-1.0	nA
Gate-drain breakdown voltage	V (BR) GDS	$V_{DS}=0,\ I_G=-100\ \mu A$	-40	_	_	V
Drain current	I _{DSS} (Note 1)	$V_{DS} = 10 V, V_{GS} = 0$	5.0	_	30	mA
Gate-source cut-off voltage	V _{GS (OFF)}	$V_{DS}=10~V,~I_{D}=0.1~\mu A$	-0.3	_	-1.2	V
Forward transfer admittance	Y _{fs}	$V_{DS} = 10 \text{ V}, \text{ V}_{GS} = 0, \text{ f} = 1 \text{ kHz} \text{ (Note 2)}$	25	60	_	mS
Input capacitance	C _{iss}	$V_{DS} = 10 \text{ V}, \text{ V}_{GS} = 0, \text{ f} = 1 \text{ MHz}$	_	75	_	pF
Reverse transfer capacitance	C _{rss}	$V_{GD} = -10 V, I_D = 0, f = 1 MHz$	_	15	_	pF
Drain-source ON resistance	R _{DS (ON)}	$V_{DS} = 10 \text{ mV}, V_{GS} = 0 \qquad (\text{Note 2})$	_	20		Ω

Note 1: IDSS classification GR: 5.0~10.0 mA, BL: 8.0~16.0 mA, V: 14.0~30.0 mA

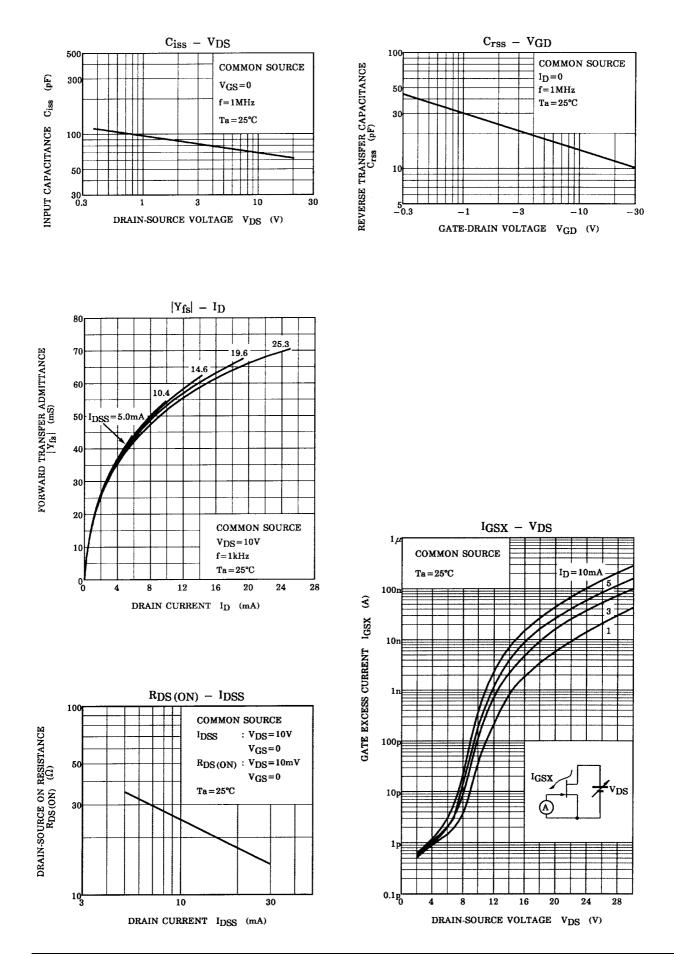
Note 2: Condition of the typical value I_{DSS} = 15 mA

Unit: mm

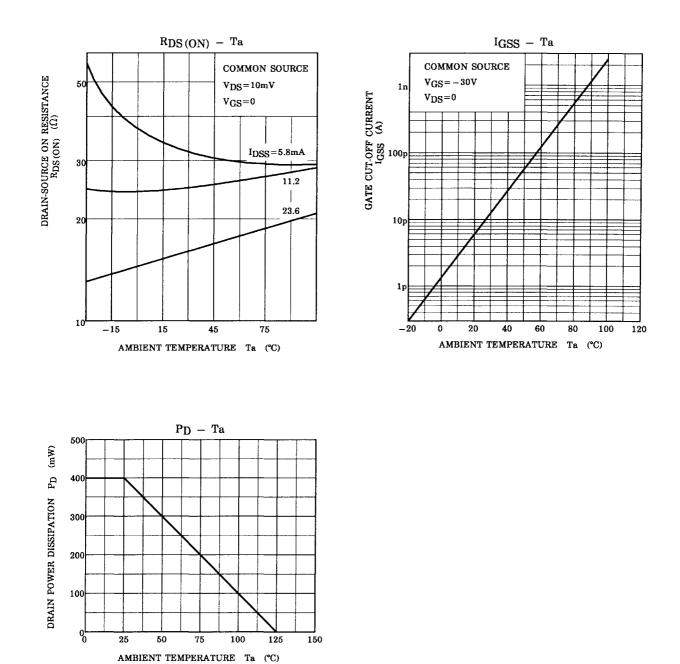
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Handbook" etc.,

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