Ordering number: EN856F

SANYO

No.856F

2SK303

N-Channel Junction Silicon FET

Low-Frequency General-Purpose Amp Applications

Features

- Ideal for potentiometers, analog switches, low frequency amplifiers, constant current supplies, and impedance conversion.

Absolute Maximum Ratings at Ta = 25°C

			unit
Drain to Source Voltage	V_{DSS}	30	V
Gate to Drain Voltage	V_{GDS}	−30	V
Gate Current	I_G	10	mA
Drain Current	I_D	20	mA
Allowable Power Dissipation	P_D	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	−55 to +150	°C

Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
Gate to Drain	$V_{(BR)GDS}$	$I_G = -10\mu A$	−30			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -20V$			−1.0	nA
Drain Current	I_{DSS}	$V_{DS} = 10V, V_{GS} = 0$	0.6※		12.0※	mA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V, I_D = 1\mu A$		−1	−4	V
Forward Transfer Admittance	$\|y_{fs}\|$	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$	2.5	6.0		mS
Input Capacitance	c_{iss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		5		pF
Output Capacitance	c_{rss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		1.5		pF
Drain to Source ON Resistance	$R_{DS(ON)}$	$V_{DS} = 10mV, V_{GS} = 0$		250		Ω

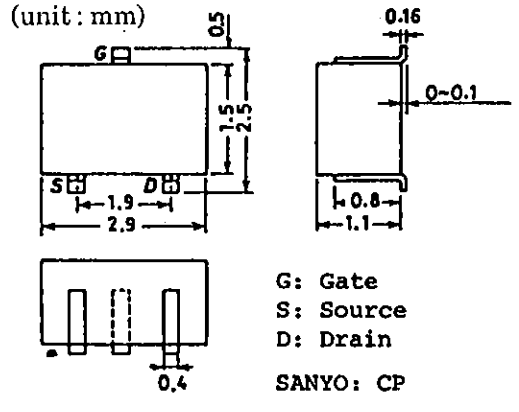
※ The 2SK303 is classified by I_{DSS} as follows (unit : mA)

0.6	2	1.5	1.2	3	3.0	2.5	4	6.0	5.0	5	12.0

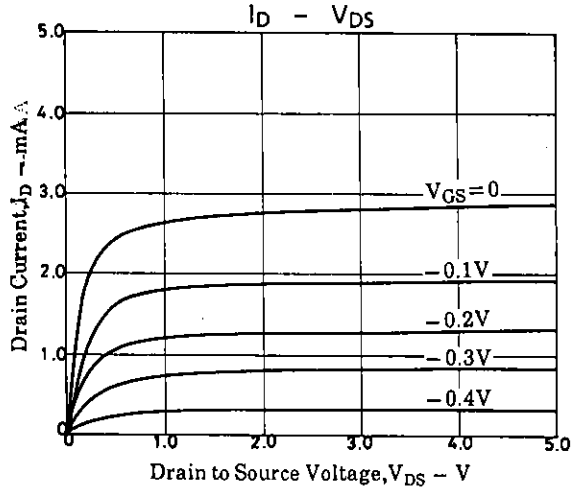
Note Marking : V
I_{DSS} rank : 2, 3, 4, 5

Package Dimensions 2050

(unit : mm)



I_D – V_{DS}



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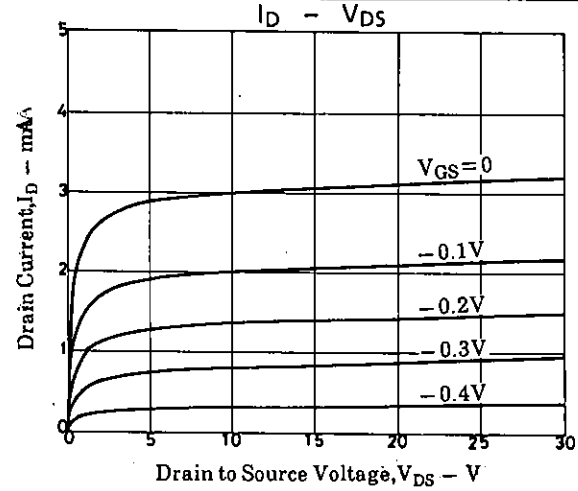
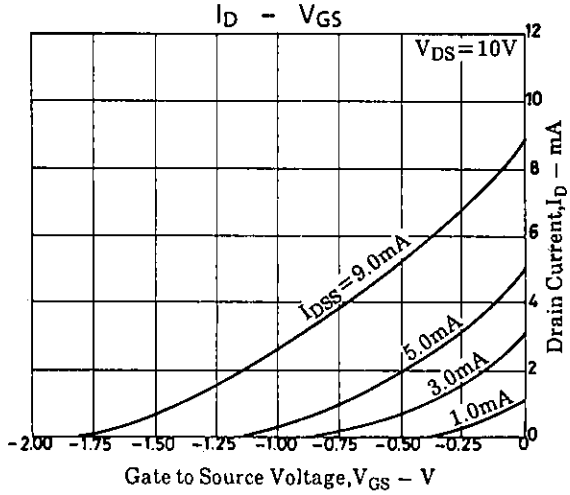
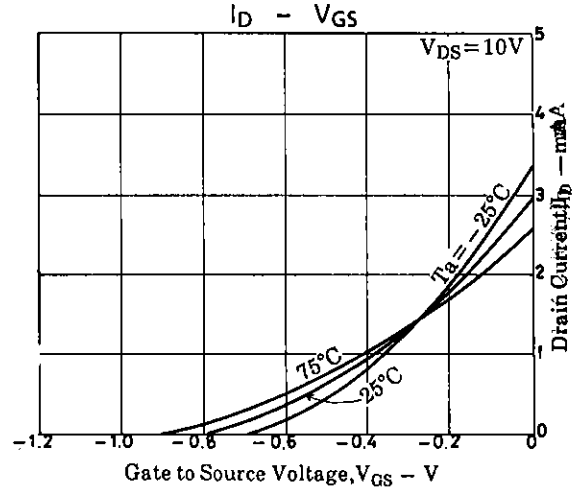


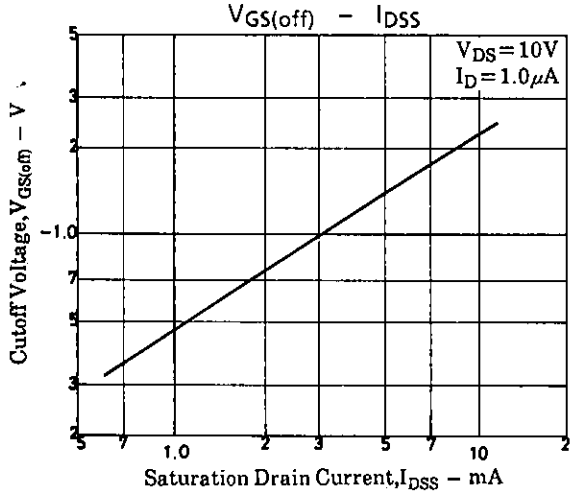
I_D – V_{GS}



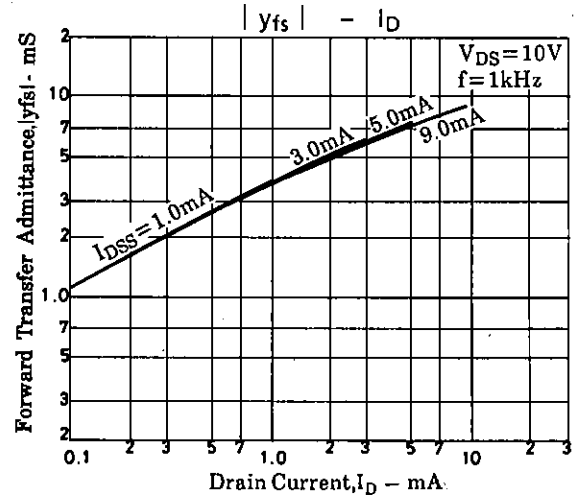
I_D – V_{GS}



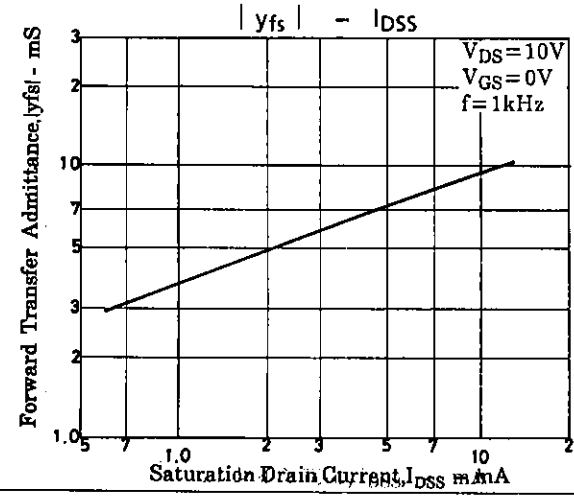
$V_{GS(off)}$ – I_{DSS}



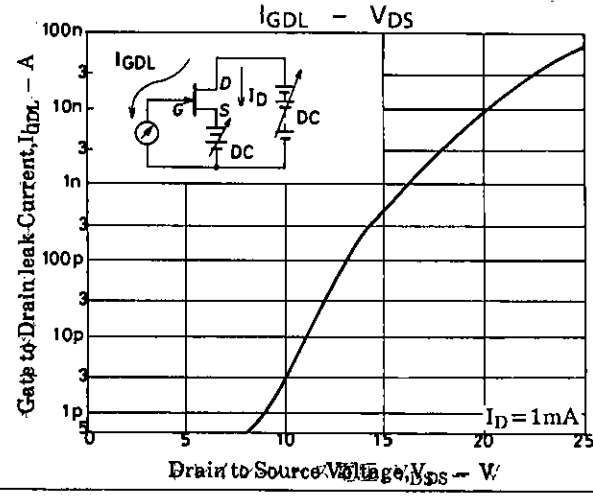
$|y_{fs}|$ – I_D

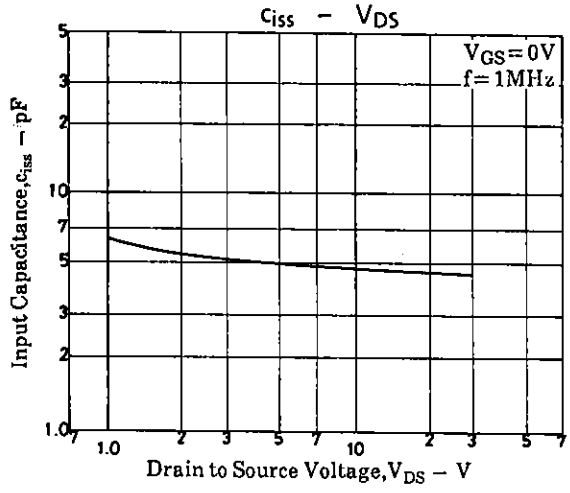


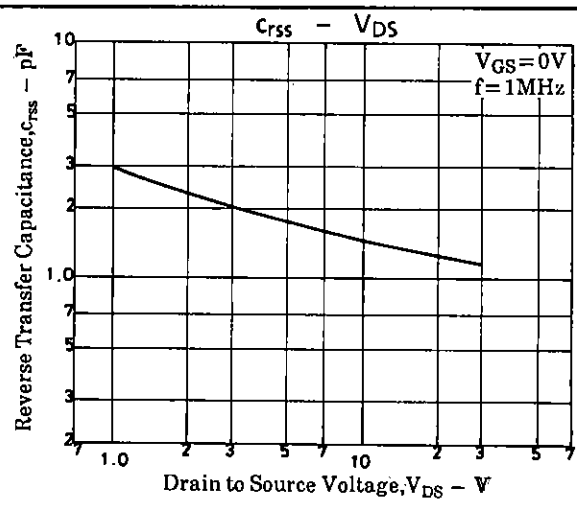
$|y_{fs}|$ – I_{DSS}

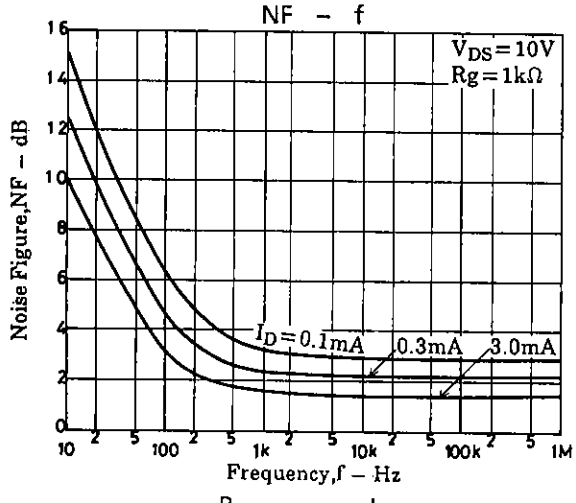


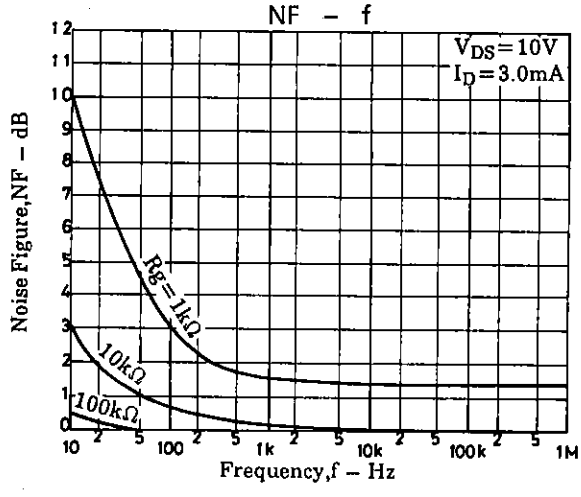
I_{GDL} – V_{DS}

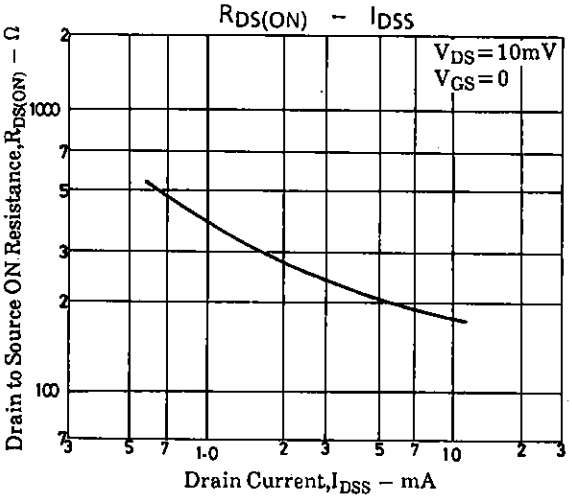


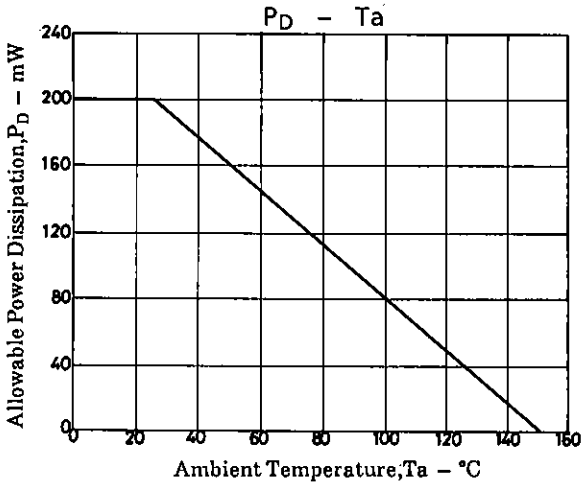












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