

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	T_j	150	°C
Storage Temperature	T_{stg}	-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

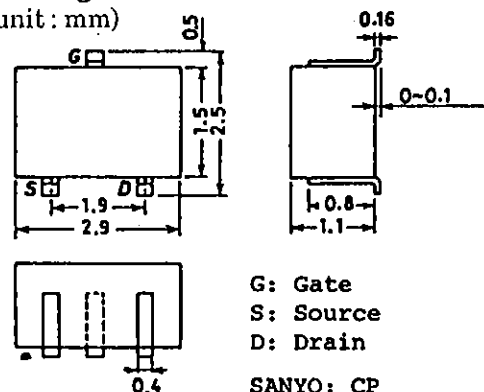
* The 2SK303 is classified by I_{DSS} as follows (unit: mA)

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

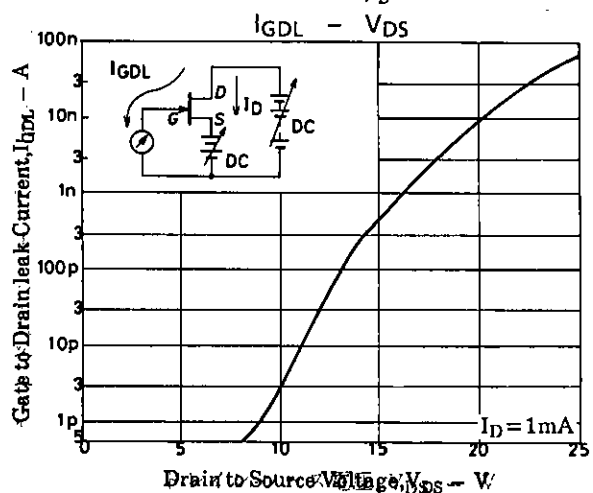
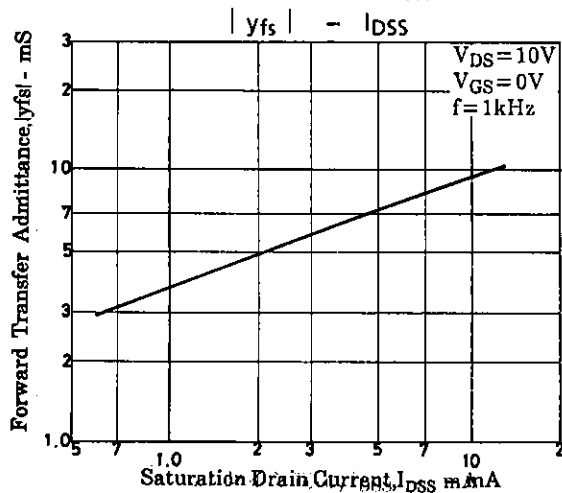
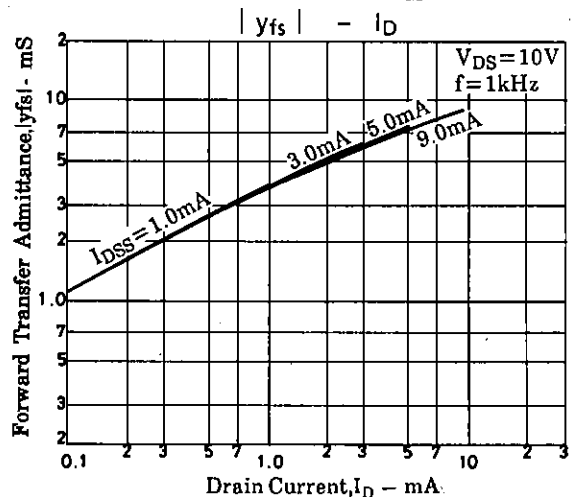
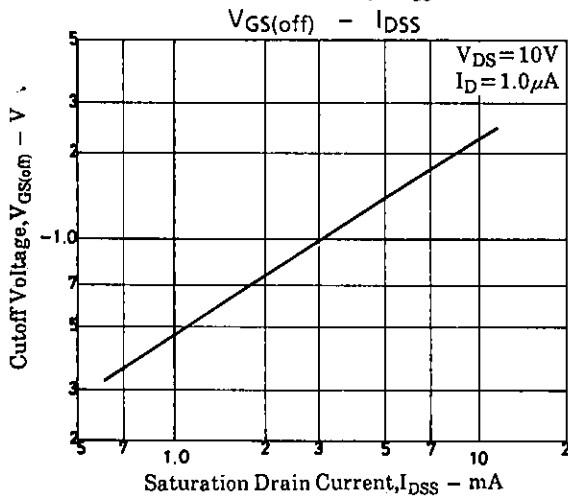
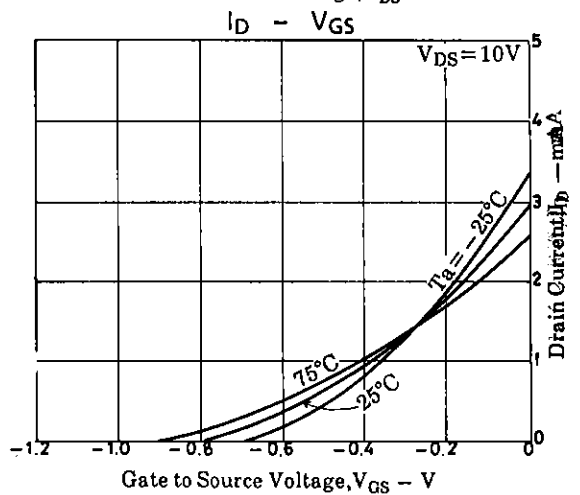
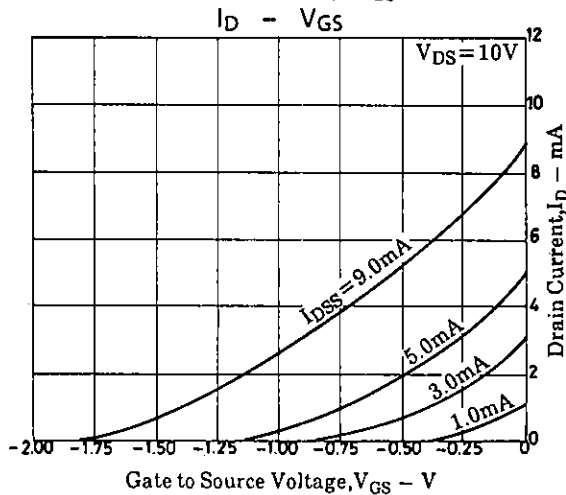
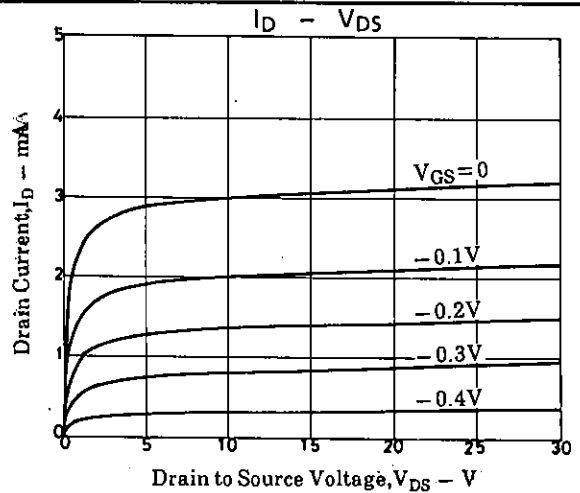
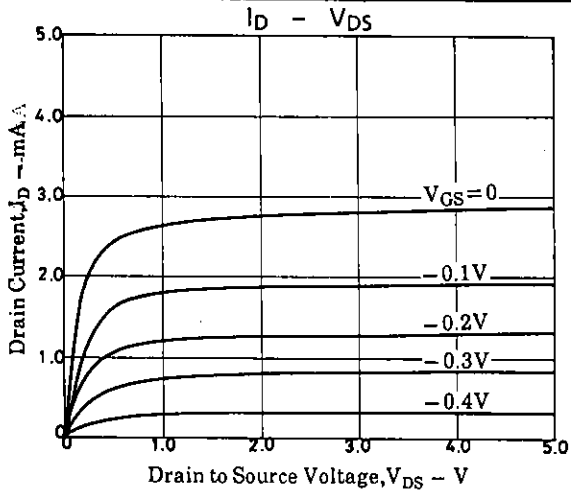
Note Marking : V
 I_{DSS} rank : 2, 3, 4, 5

Package Dimensions 2050

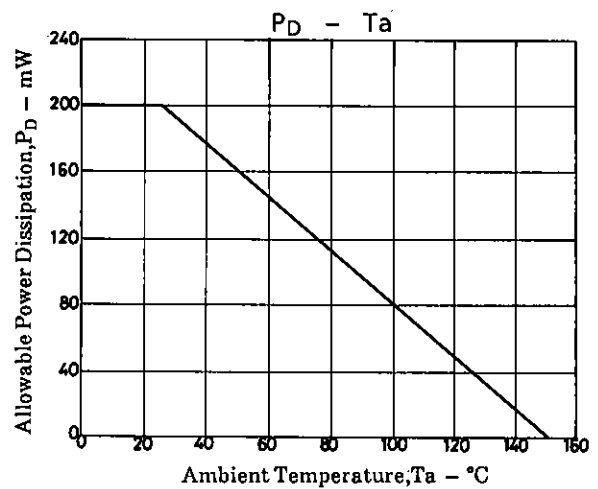
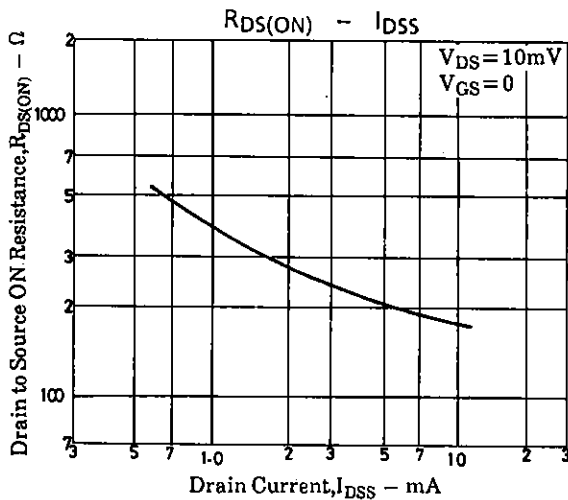
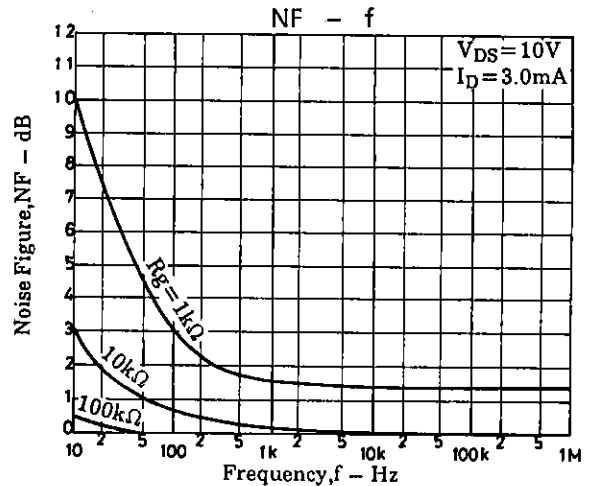
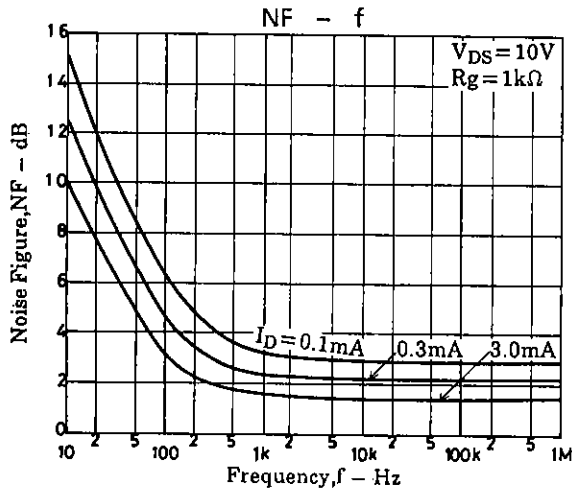
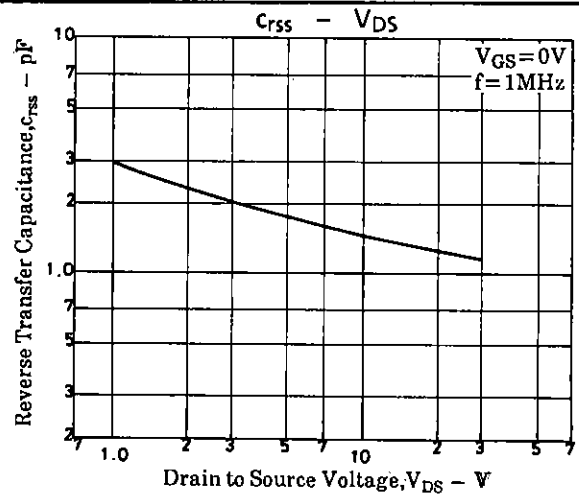
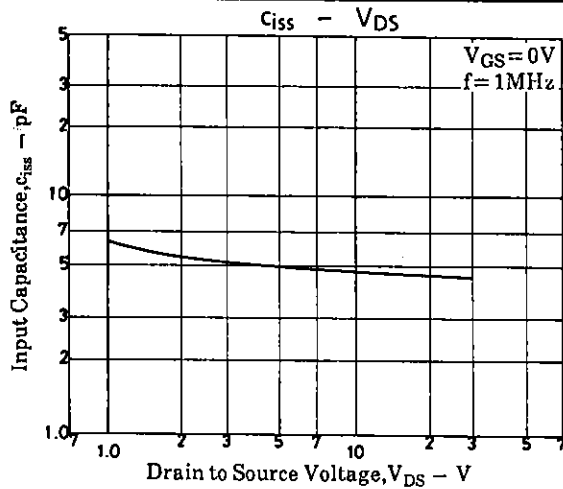
(unit: mm)



2SK303



2SK303



■ No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.

■ Anyone purchasing any products described or contained herein for an above-mentioned use shall:

- ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use;
- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.

■ Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.