

SANYO	No.1793B	2SK583
		N-Channel Enhancement MOS Silicon FET

Analog Switch Applications

Applications

- . Analog switches, low-pass filters

Features

- . Large $|y_{fs}|$
- . Enhancement type
- . Small ON-resistance

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

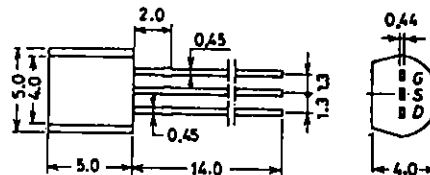
			unit
Drain to Source Voltage	V_{DS}	50	V
Gate to Source Voltage	V_{GS}	± 12	V
Drain Current	I_D	200	mA
Drain Current (Pulse)	I_{DP}	300	mA
Allowable Power Dissipation	P_D	600	mW
Channel Temperature	T_{ch}	125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

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

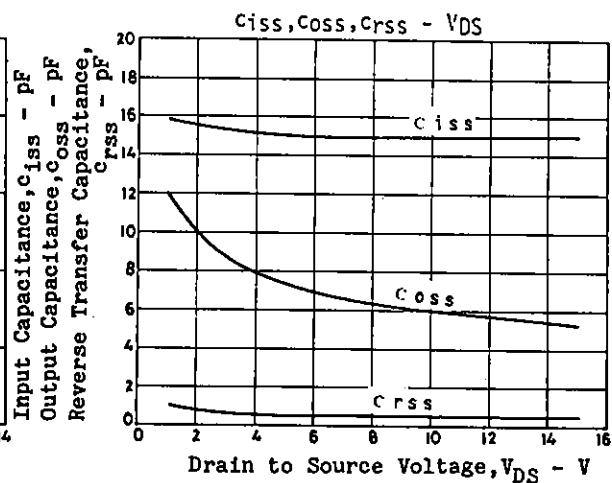
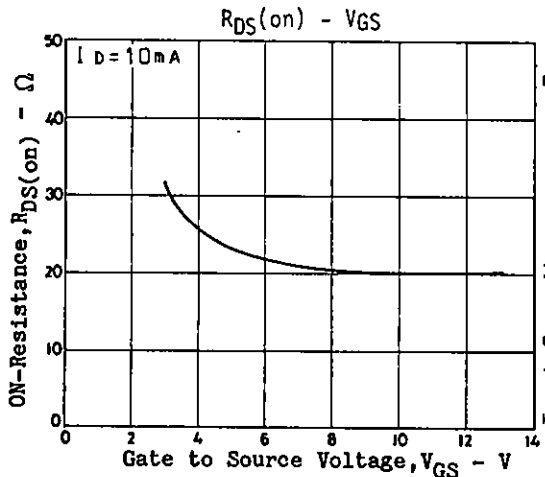
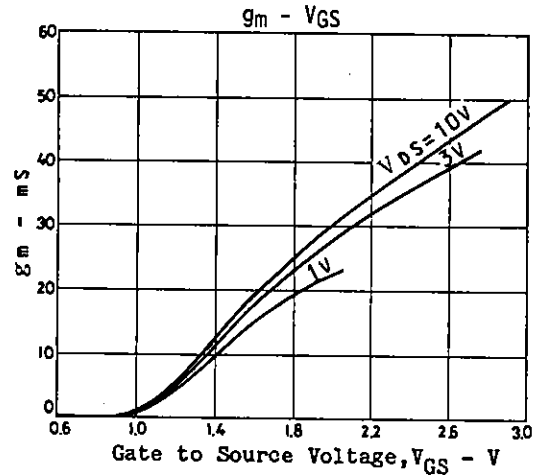
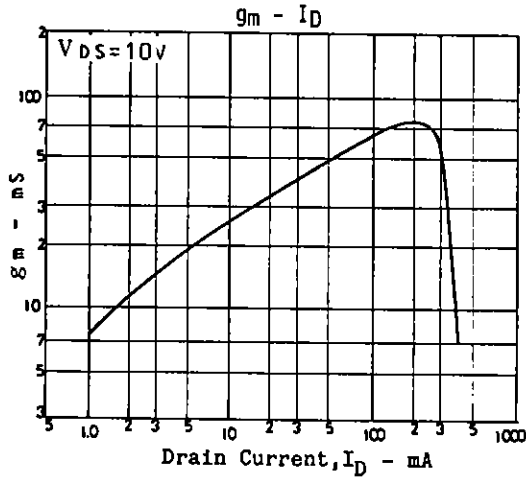
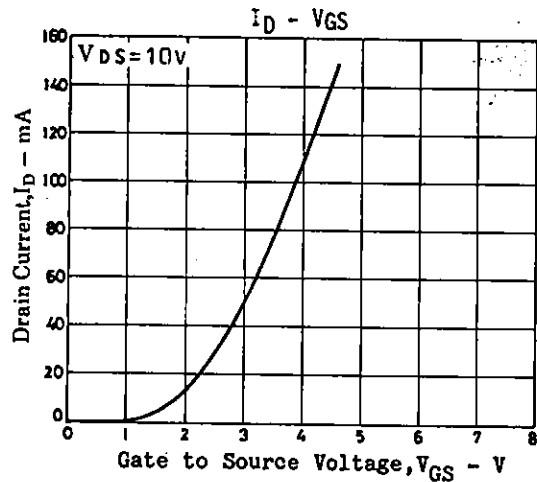
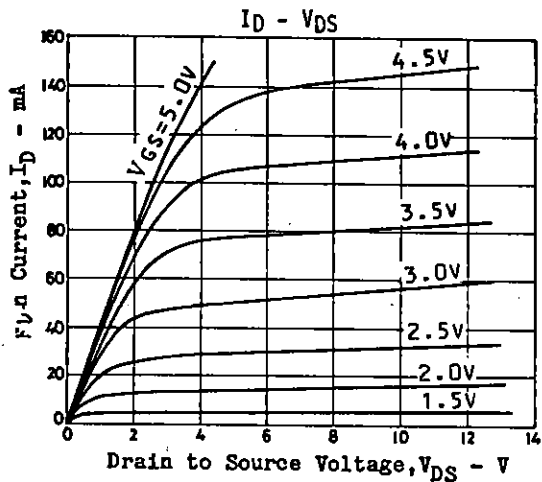
			min	typ	max	unit
Drain to Source Voltage	$V_{(BR)DS}$	$I_D=10\mu\text{A}, V_{GS}=0\text{V}$	50			V
Gate Cutoff Current	I_{GSS}	$V_{GS}=10\text{V}, V_{DS}=0\text{V}$		0.01	10	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=10\text{V}, I_D=100\mu\text{A}$	0.3	0.9	1.5	V
Drain Current	I_{DSS}	$V_{DS}=20\text{V}, V_{GS}=0\text{V}$			1	μA
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=10\text{V}, I_D=50\text{mA}, f=1\text{kHz}$	25	40		mS
Input Capacitance	c_{iss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$		15		pF
Output Capacitance	c_{oss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$		6		pF
Reverse Transfer Capacitance	c_{rss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$		0.5		pF
ON-Resistance	$r_{DS(on)}$	$V_{GS}=10\text{V}, I_D=10\text{mA}$		20		Ω

Package Dimensions 2005A

(unit: mm)



JEDEC: TO-92 G: Gate
 EIAJ : SC-43 S: Source
 SANYO: NP D: Drain



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