

SANYO	No.1790B	2SK546
		N-Channel Junction Silicon FET

Impedance Converter Applications

Applications

- Impedance conversion
- Infrared sensor

Features

- Low I_{GSS}
- Small c_{iss}

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

			unit
Drain to Source Voltage	V_{DSS}	40	V
Gate to Drain Voltage	V_{GDS}	-40	V
Gate Current	I_G	10	mA
Drain Current	I_D	1	mA
Allowable Power Dissipation	P_D	100	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

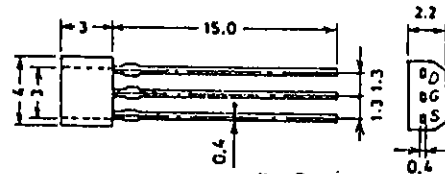
Electrical Characteristics at $T_a=25^\circ\text{C}$

			min	typ	max	unit
Gate to Drain Breakdown Voltage	$V(BR)_{GDS}$	$I_G=-10\mu\text{A}, V_{DS}=0$	-40			V
Gate Cutoff Current	I_{GSS}	$V_{GS}=-20\text{V}, V_{DS}=0$			-500	pA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=10\text{V}, I_D=1\mu\text{A}$	-1.5	-4.0		V
Drain Current	I_{DSS}	$V_{DS}=10\text{V}, V_{GS}=0$	30*		300*	μA
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{kHz}$	0.05	0.13		mS
Input Capacitance	c_{iss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$		1.9		pF
Reverse Transfer Capacitance	c_{rss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$		0.7		pF

* The 2SK546 is classified by I_{DSS} as follows (unit: μA):

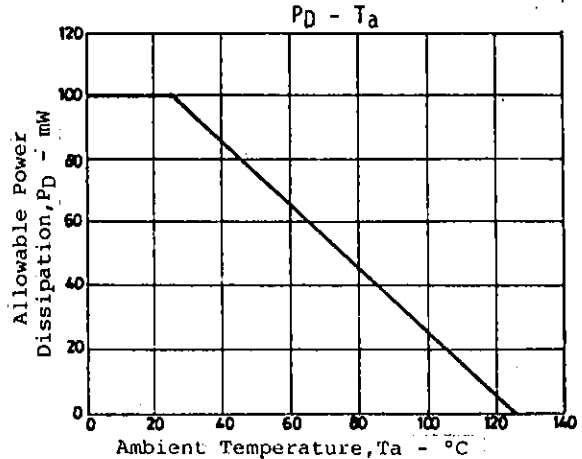
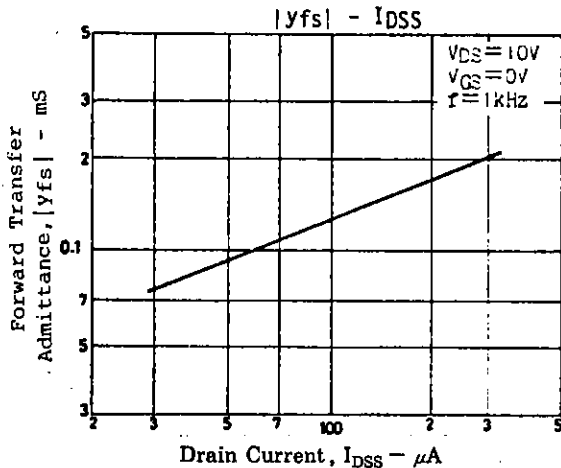
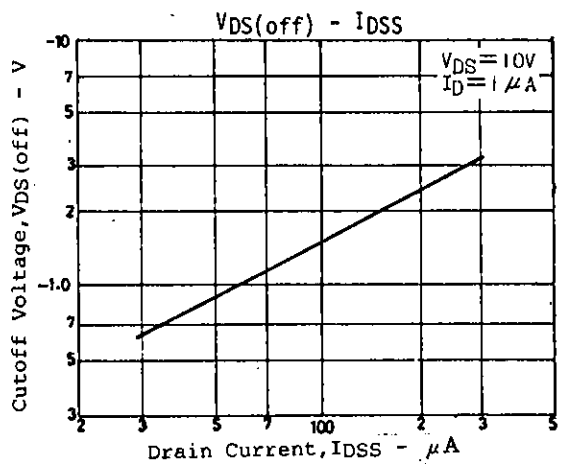
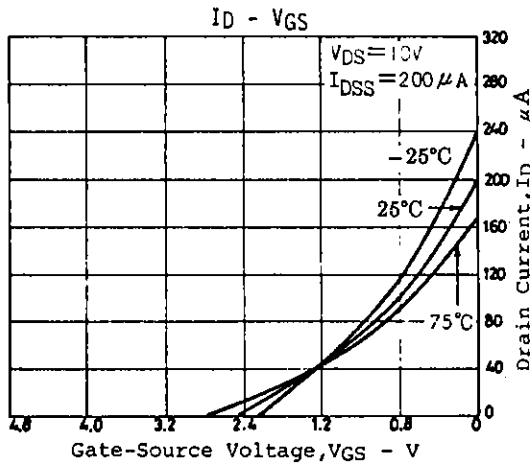
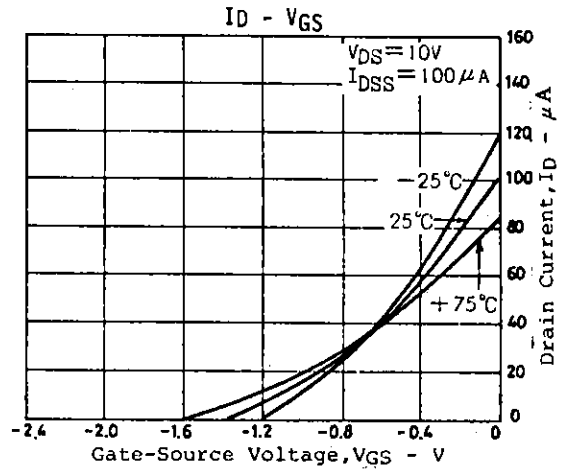
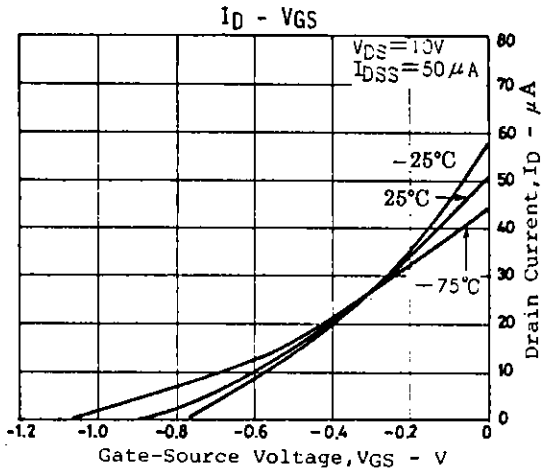
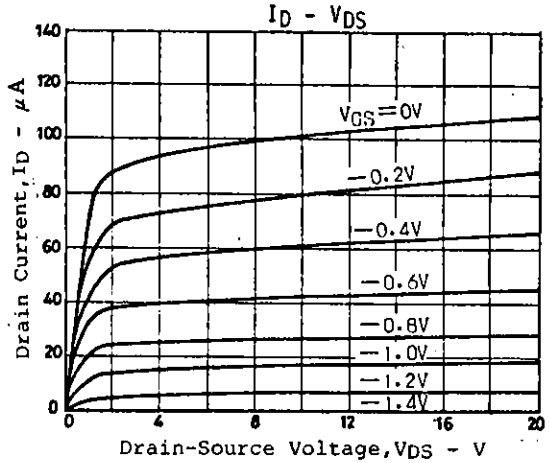
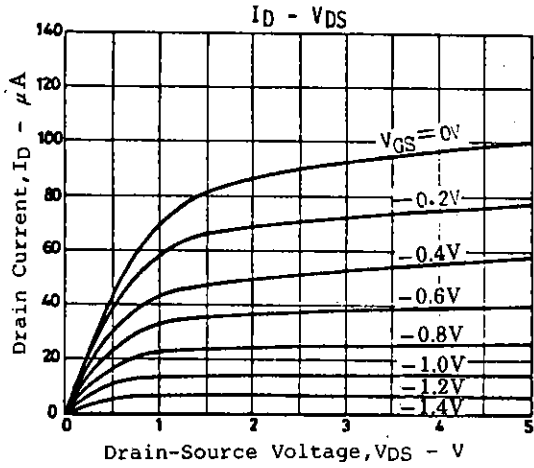
30	I	80	60	J	180	150	K	300
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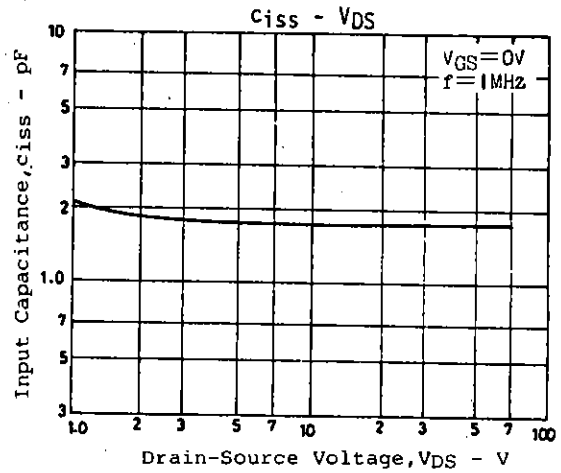
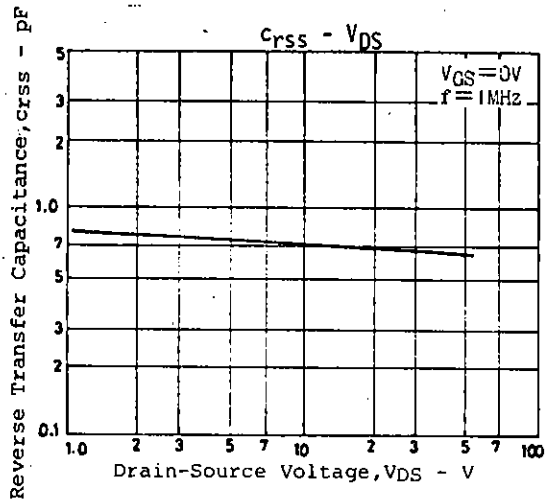
Package Dimensions 2034
(unit: mm)



D: Drain
G: Gate
S: Source

SANYO: SPA





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