



Impedance Converter Applications

Applications

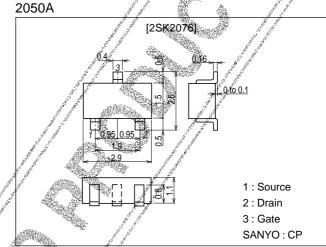
- · Low-frequency general-purpose amplifier applica-
- · Impedance conversion.
- · Infrared sensor.

Features

- · Small I_{GSS}.
- · Small Ciss.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol Conditions Conditions	Ratings	Unit
Drain-to-Source Voltage	V _D sX	30	V
Gate-to-Drain Voltage	Vens	-30	V
Gate Current	/ J Ġ	10	mA
Drain Current	//ID	5	mA
Allowable Power Dissipation	PD /	150	mW
Junction Temperature	The second secon	150	°C
Storage Temperature	Tsig	−55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
1 arameter			min	typ	max	Offic
Gate-to-Drain Breakdown Voltage	V(BR)GDS	JG=-10μA, V _{DS} =0	-30			V
Zero-Gate Voltage Drain Current	DSS /	V _{DS} =10V, V _{GS} =0	0.4*		1.1*	mA
Gate-to-Source Leakage Current	IGSS	V _{GS} =-20V, V _{DS} =0			-1.0	nA
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =1μA	-0.3	-0.75	-1.5	V
Forward Transfer Admittance	[/ŷfs/]	V _{DS} =10V, V _{GS} =0, f=1kHz	1.1	1.8		mS

^{*:} The 2SK2076 is classified by IDSS as follows: (unit: mA).

0.4 14 0.8 0.6 15 1.1

Note) Marking: H I_{DSS} rank : 14, 15

For MCP package version, use the 2SK2091.

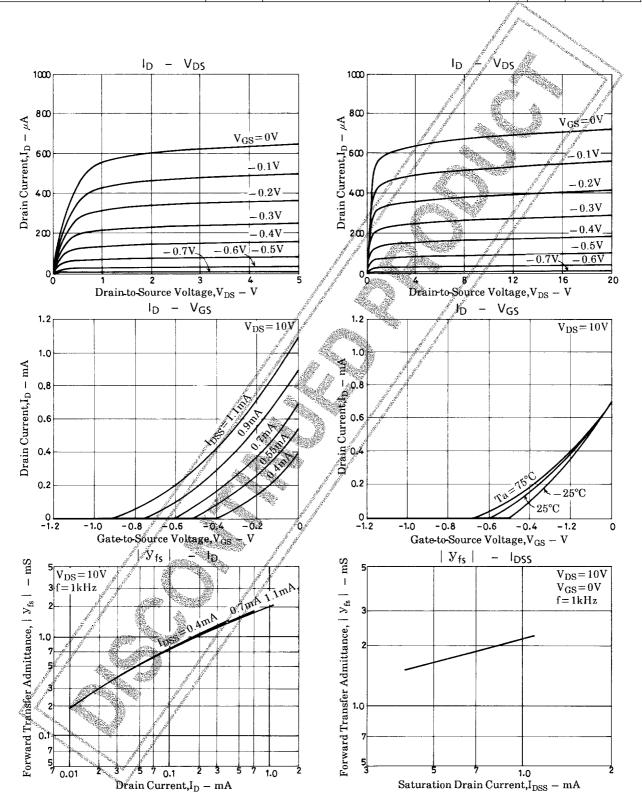
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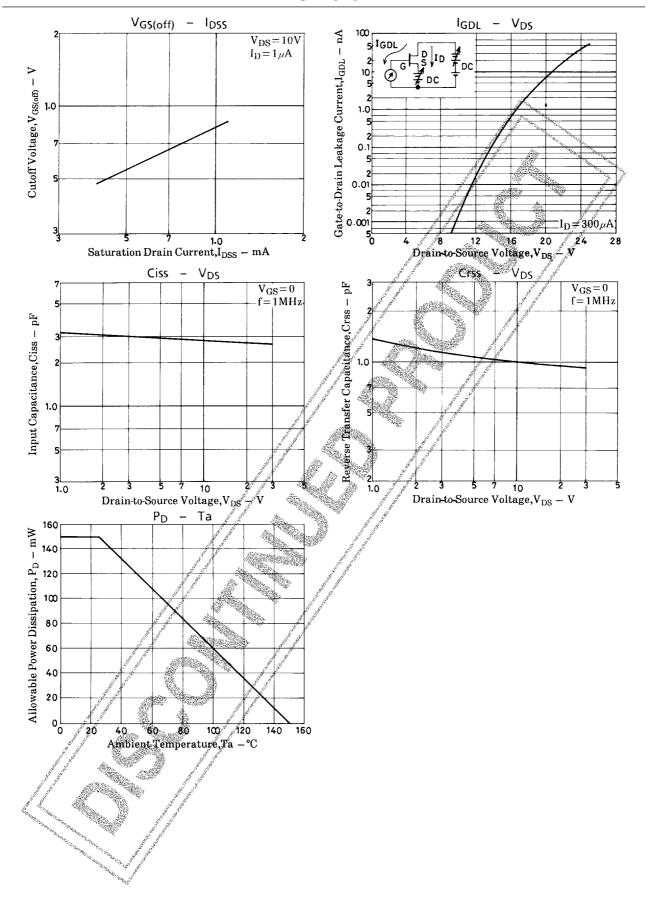
SANYO Electric Co., Ltd. Semiconductor Company

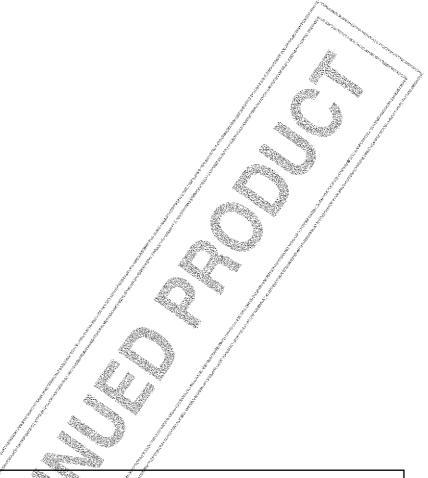
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Parameter	Symbol	Conditions	Ratings			Unit
i alametei			min	typ	max	Offic
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0, f=1MHz		2.9		pF
Reverse Transfer Capacitance	Crss	V_{DS} =10V, V_{GS} =0, f=1MHz		1.1		pF







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