

SANYO Semiconductors DATA SHEET

N-Channel Junction Silicon FET 2SK3796 — Low-Frequency General-Purpose Amplifier,

Impedance Converter Applications

Applicatins

· Low-frequency general-purpose amplifier, impedance conversion, analog switches applications.

Features

- · Small IGSS.
- Small Ciss

Specifications

Absolute Maximum Ratings at Ta=25°C

D	C:b l	0	Datin	1.1
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSX		30	V
Gate-to-Drain Voltage	V _{GDS}		-30	٧
Gate Current	IG		10	mA
Drain Current	ID		10	mA
Allowable Power Dissipation	PD		100	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Syllibol		min	typ	max	Offic
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I _G =-10μA, V _{DS} =0V	-30			V
Gate-to-Source Leakage Current	IGSS	V _{GS} =-20V, V _{DS} =0V			-1.0	nA
Cutoff Voltage	VGS(off)	VDS=10V, ID=1μA	-0.18	-0.95	-2.2	V

Marking: K Continued on next page.

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2SK3796

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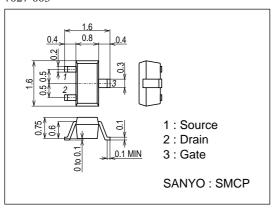
Parameter	Symbol	Conditions	Ratings			Unit	
www.DataSheet411.com	Gymbol	Conditions	min	typ	max	Offic	
Drain Current	IDSS	V _{DS} =10V, V _{GS} =0V	0.6*		6.0*	mA	
Forward Transfer Admittance	yfs	V _{DS} =10V, V _{GS} =0V, f=1kHz	3.0	6.5		mS	
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0V, f=1MHz		4		pF	
Reverse Transfer Capacitance	Crss	V _{DS} =10V, V _{GS} =0V, f=1MHz		1.1		pF	
Static Drain-to-Source On-State Resistance	R _{DS} (on)	V _{DS} =10mV, V _{GS} =0V		200		Ω	

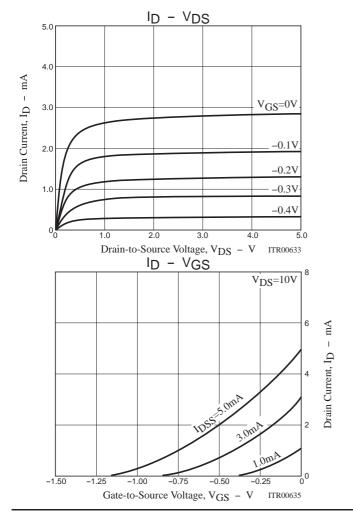
*: The 2SK3796 is classified by IDSS as follows: (unit: mA).

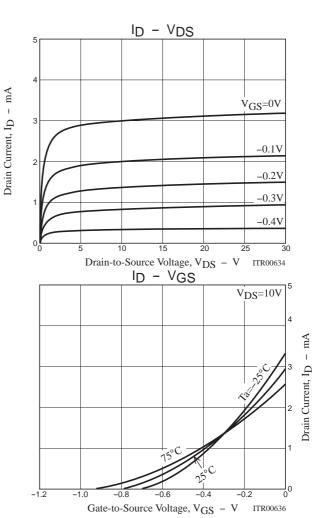
Rank	2	3	4	
IDSS	0.6 to 1.5	1.2 to 3.0	2.5 to 6.0	

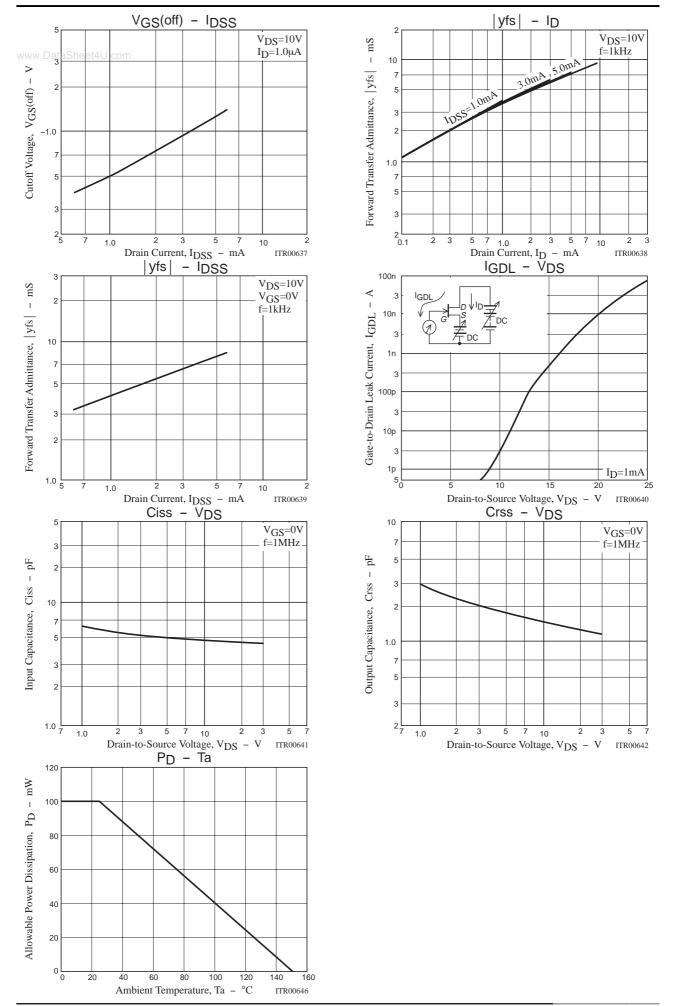
Package Dimensions

unit : mm (unit) 7027-003









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