

SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

N-Channel Junctin Silicon FET 2SK3796 — Low-Frequency General-Purpose Amplifier, **Impedance Converter Applications**

Applications

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

Features

- · Small IGSS
- Small Ciss

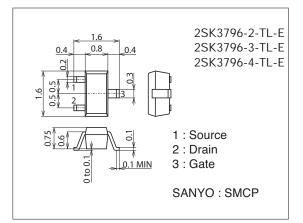
Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}		30	V
Gate-to-Drain Voltage	V _{GDS}		-30	V
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

Package Dimensions

unit : mm (typ) 7013A-011

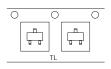


Product & Package Information

- Package : SMCP
- : SC-75, SOT-416 • JEITA, JEDEC
- Minimum Packing Quantity : 3,000 pcs./reel

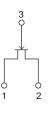
Packing Type: TL

Marking





Electrical Connection



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Electrical Characteristics at Ta=25°C

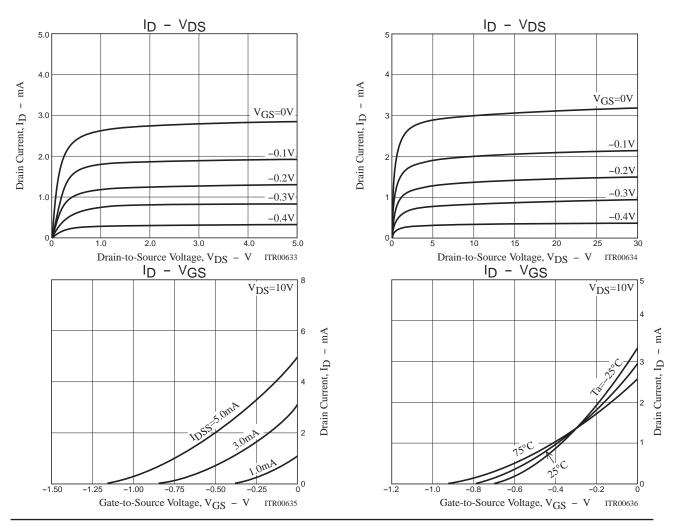
Parameter	Symbol	Conditions		Unit			
Palameter	Symbol	Conditions	min	typ	max	Unit	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	IG=-10μA, VDS=0V	-30			V	
Gate Cutoff Current	IGSS	$V_{GS}=-20V$, $V_{DS}=0V$			-1.0	nA	
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1µA	-0.18	-0.95	-2.2	V	
Drain Current	IDSS	V _{DS} =10V, V _{GS} =0V	0.6*		6.0*	mA	
Forward Transfer Admittance	yfs	VDS=10V, VGS=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} =10V		200		Ω	

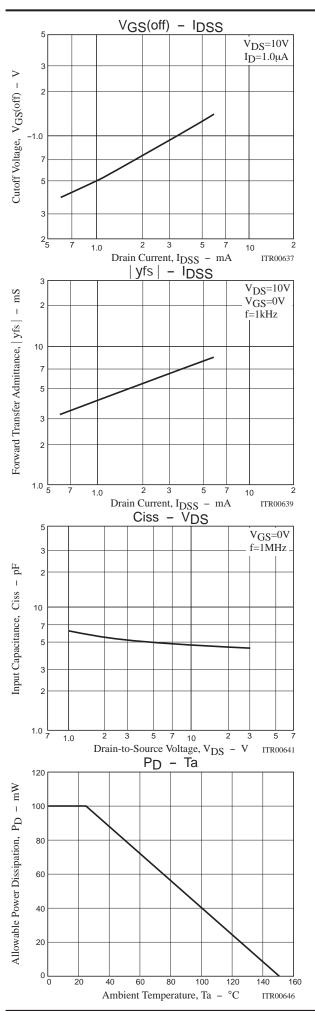
* : The 2SK3796 is classified by IDSS as follows : (unit : mA)

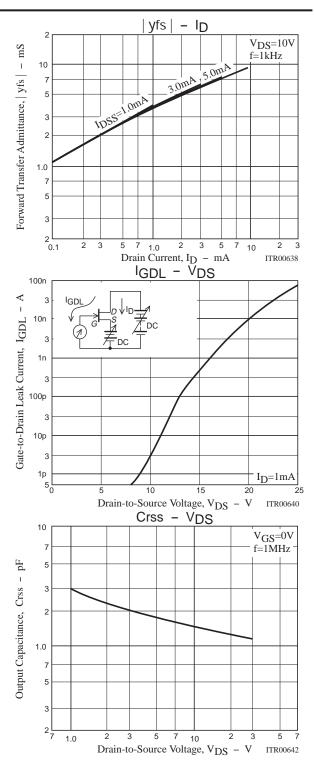
Rank	2	3	4	
IDSS	0.6 to 1.5	1.2 to 3.0	2.5 to 6.0	

Ordering Information

Device	Package	Package Shipping		
2SK3796-2-TL-E	SMCP	3,000pcs./reel		
2SK3796-3-TL-E	SMCP	3,000pcs./reel	Pb Free	
2SK3796-4-TL-E	SMCP	3,000pcs./reel		







Embossed Taping Specification

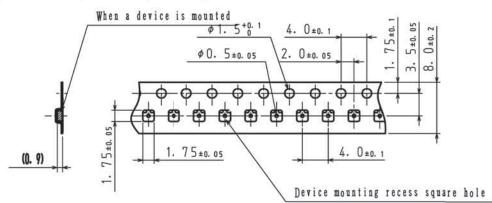
2SK3796-2-TL-E, 2SK3796-3-TL-E, 2SK3796-4-TL-E

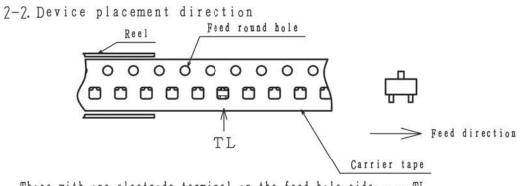
1. Packing Format

Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format				
	Type Reel		Inner box Outer box		Inner BOX (C-1)			Outer BOX (A-7)	
SMCP	SMCP 3,00		3, 000 15, 000 90, 000			s contai	ned	6 inner boxes contained	
			on reader thereits and the second		[]imensions:mm (external)			l) Dimensions:mm (external)	
					183×72×185			440×195×210	
			Reel	label,	[nner b	ox labe		er box label	
Packing met	hod			(u	nit:m	m)	It i The dist	s a label at the time of factory shipments form of a label may change in physical ribution process.	
0	>		-	1	69	>		108	
	Orig	No. tity		he LEAD F reatment	()) ()) ()) ()) ()) ()) ()) ()) ()) ())	PREB # >* *****) escripti terminal	t 0 m shows is lead	TYPE CODB ************************************	
			122	Labe		0.0001.0000	A Phase		
			•			JEIIA	Phase 3		

2. Taping configuration

2-1. Carrier tape size (unit:mm)

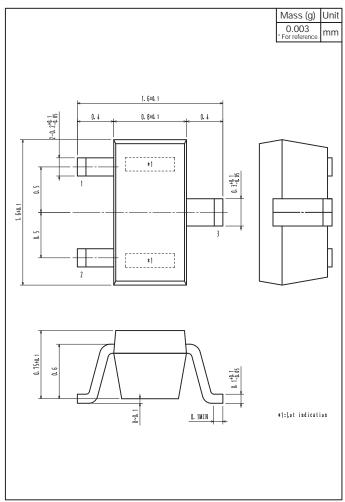




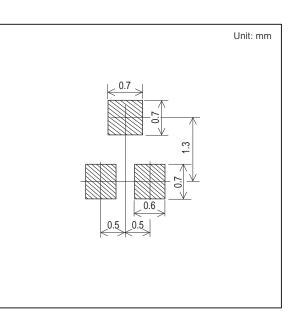


Outline Drawing

2SK3796-2-TL-E, 2SK3796-3-TL-E, 2SK3796-4-TL-E



Land Pattern Example



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