

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 2SK3796-2-TL-E
Manufacturer: onsemi
Package: TO-236-3, SC-59, SOT-23-3
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/onsemi/2sk3796-2-tl-e.html>

Request a Quote:

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



2SK3796

N-Channel JFET 30V, 0.6 to 6.0mA, 6.5mS, SMCP

ON Semiconductor®

<http://onsemi.com>

Applications

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

Features

- Small IGSS
- Small Ciss

Specifications

Absolute Maximum Ratings at Ta=25°C

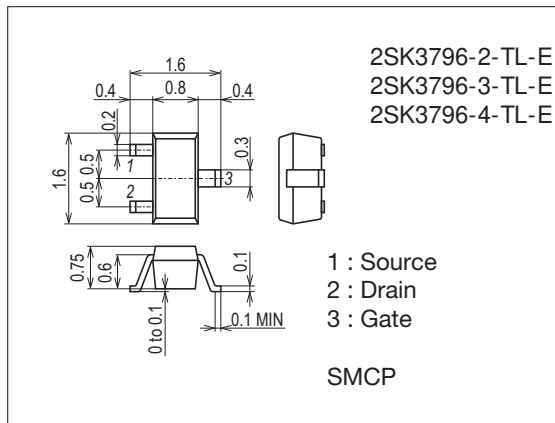
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}		30	V
Gate-to-Drain Voltage	V _{GDS}		-30	V
Gate Current	I _G		10	mA
Drain Current	I _D		10	mA
Allowable Power Dissipation	P _D		100	mW
Junction Temperature	T _j		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ)

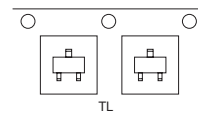
7013A-011



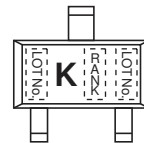
Product & Package Information

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

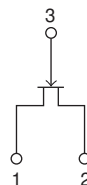
Packing Type: TL



Marking



Electrical Connection



Electrical Characteristics at Ta=25°C

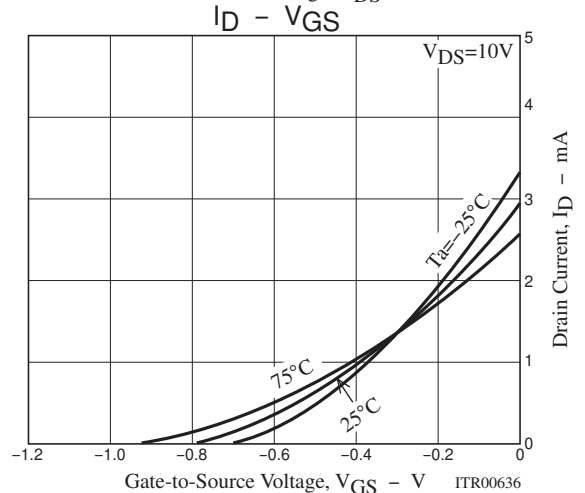
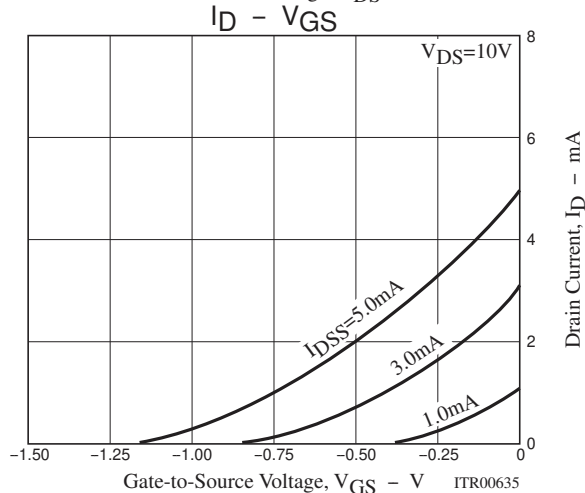
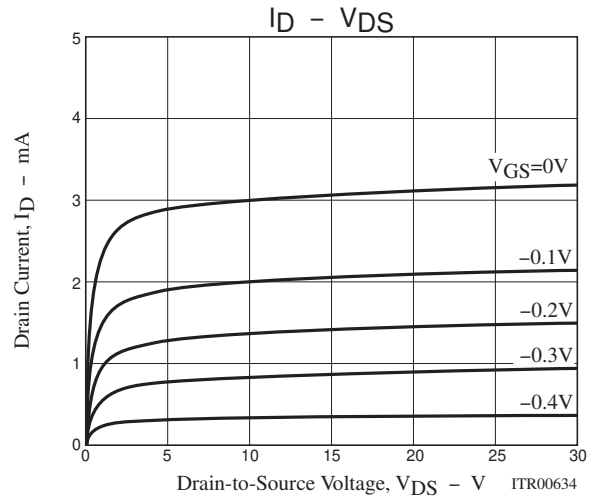
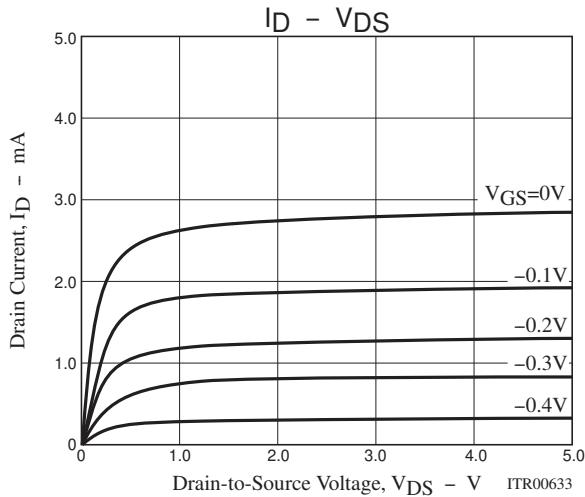
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A$, $V_{DS} = 0V$	-30			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -20V$, $V_{DS} = 0V$			-1.0	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V$, $I_D = 1\mu A$	-0.18	-0.95	-2.2	V
Drain Current	I_{DSS}	$V_{DS} = 10V$, $V_{GS} = 0V$	0.6*		6.0*	mA
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 10V$, $V_{GS} = 0V$, $f = 1kHz$	3.0	6.5		mS
Input Capacitance	C_{iss}	$V_{DS} = 10V$, $V_{GS} = 0V$, $f = 1MHz$		4		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = 10V$, $V_{GS} = 0V$, $f = 1MHz$		1.1		pF
Static Drain-to-Source On-State Resistance	$R_{DS(on)}$	$V_{DS} = 10mV$, $V_{GS} = 10V$		200		Ω

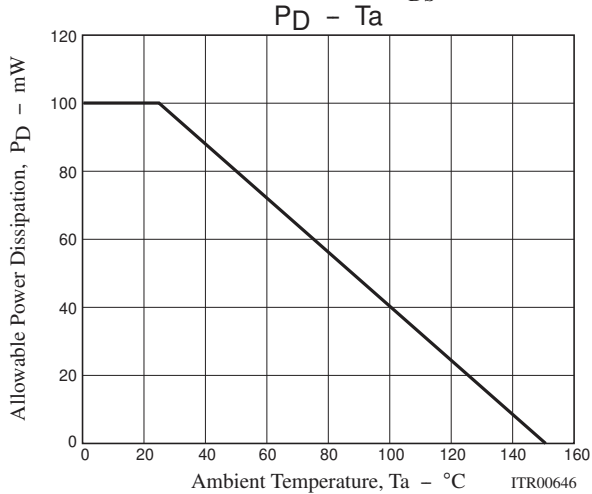
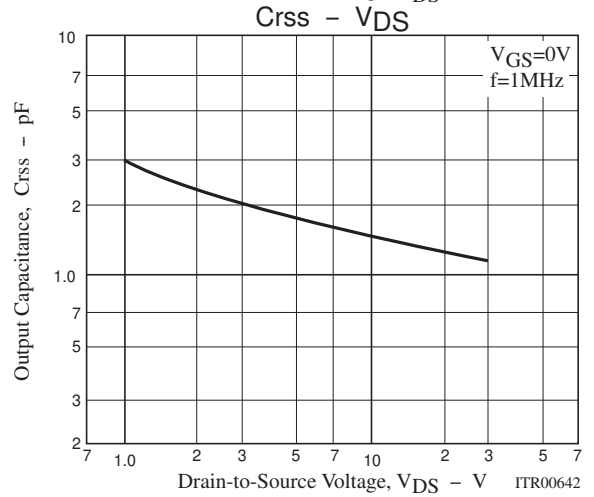
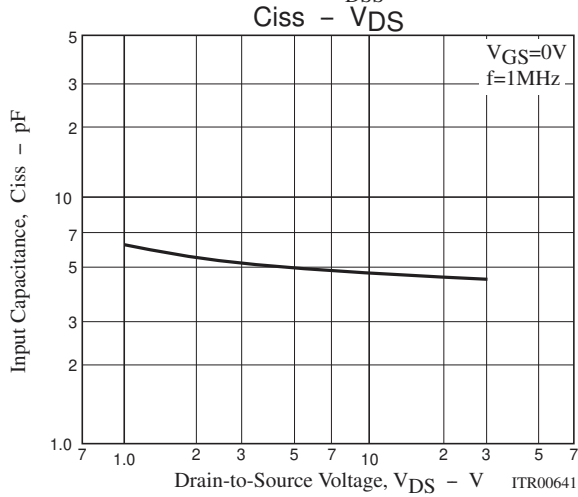
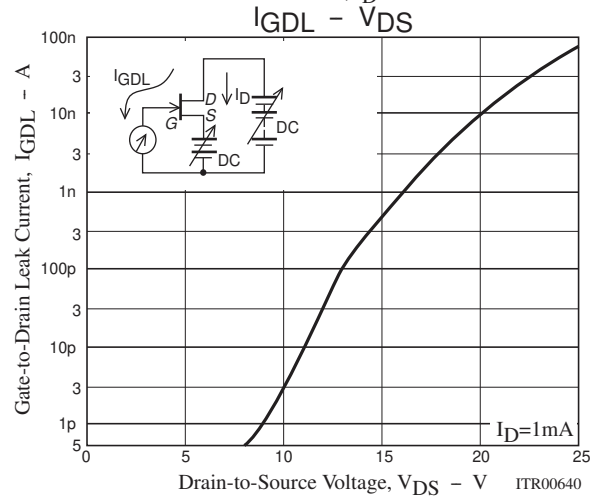
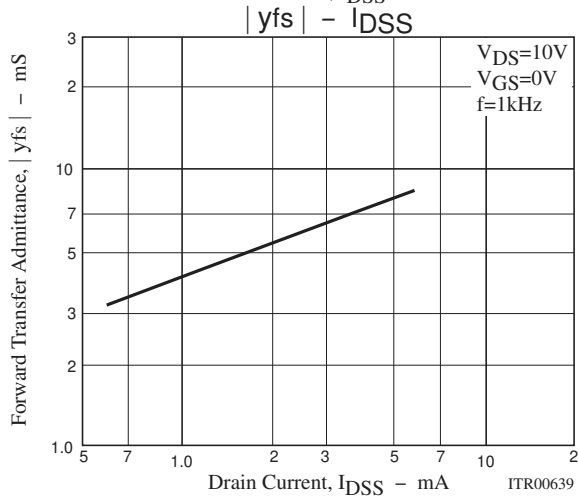
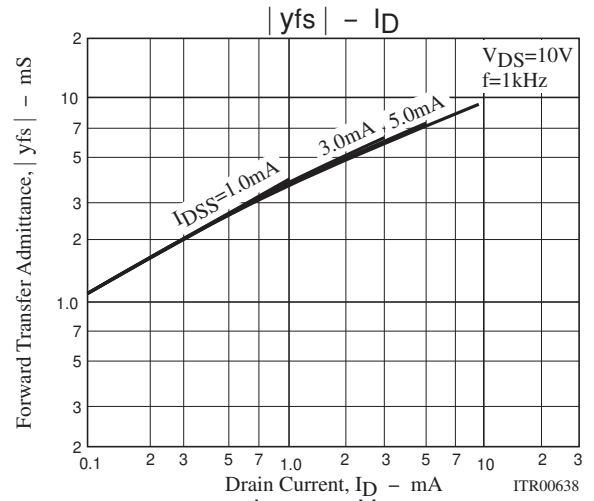
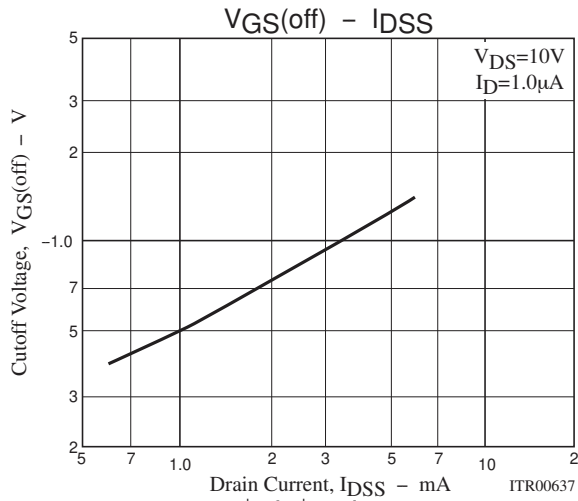
* : The 2SK3796 is classified by I_{DSS} as follows : (unit : mA)

Rank	2	3	4
I_{DSS}	0.6 to 1.5	1.2 to 3.0	2.5 to 6.0

Ordering Information

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





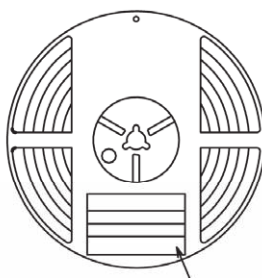
Embossed Taping Specification

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

1. Packing Format

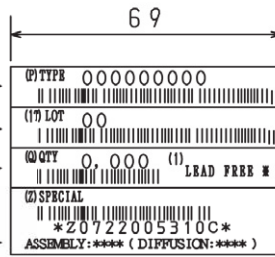
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
SMCP	SMCP	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Packing method



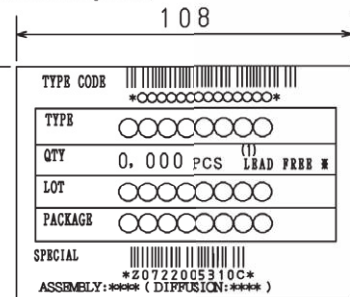
Reel label

Type No.
LOT No.
Quantity
Origin

Reel label, Inner box label
(unit:mm)

Outer box label

It is a label at the time of factory shipments.
The form of a label may change in physical
distribution process.



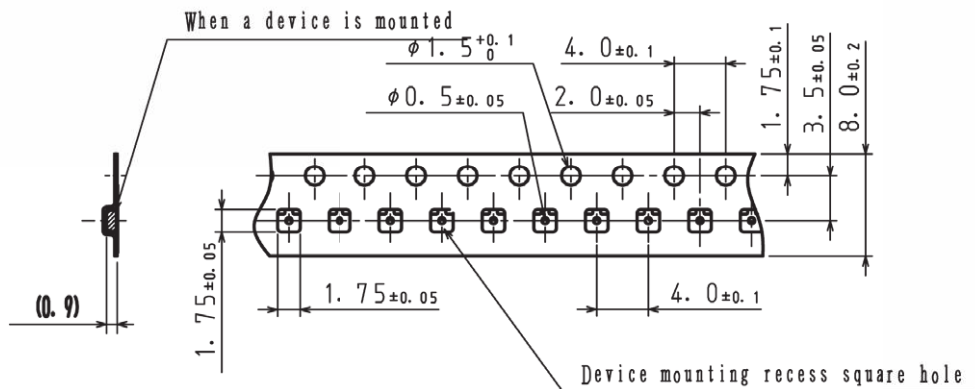
NOTE (1)

The LEAD FREE * description shows that the surface
treatment of the terminal is lead free.

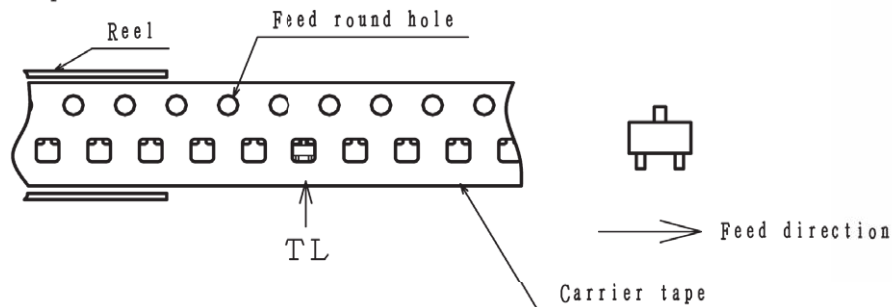
Label	JEITA Phase
.....	JEITA Phase 3

2. Taping configuration

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



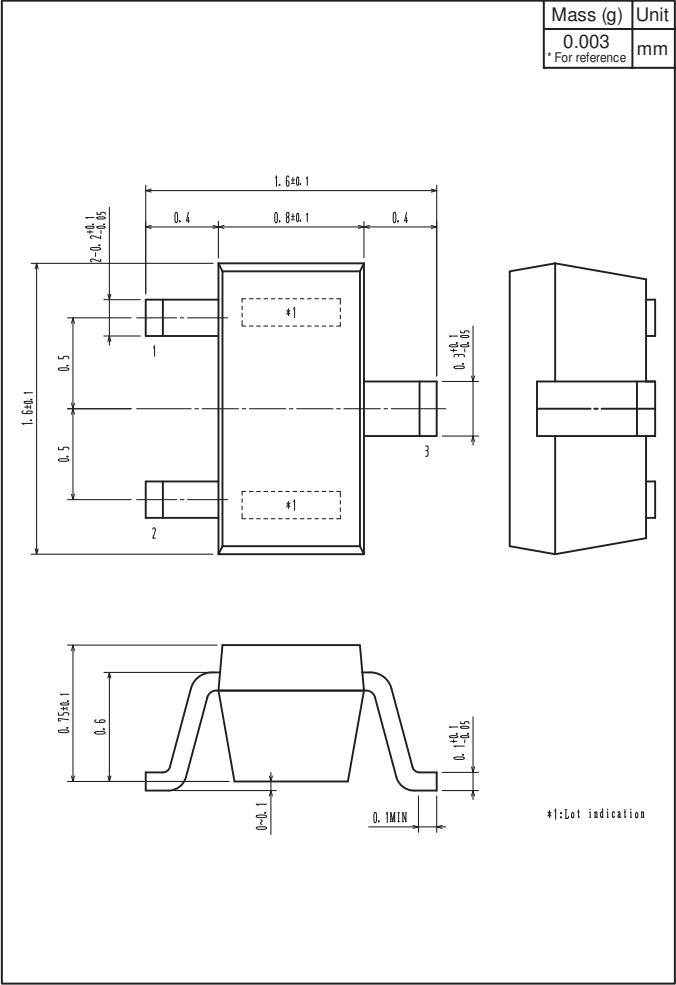
2-2. Device placement direction



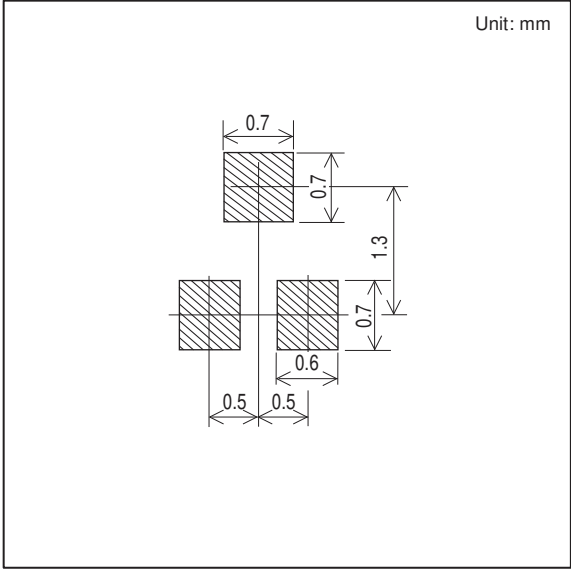
Those with one electrode terminal on the feed hole side.....TL

Outline Drawing

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



Land Pattern Example



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