

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 2SK3796-4-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/2sk3796-4-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.

<http://onsemi.com>

30V, 0.6 to 6.0mA, 6.5mS, SMCP

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

- Small IGSS
- Small Ciss

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

Technical drawing of the SMCP package showing dimensions in millimeters (mm). The drawing includes a top view, a side view, and a cross-sectional view.

Top View Dimensions:

- Overall width: 1.6
- Distance from left edge to center of pin 1: 0.4
- Distance between pins 1 and 2: 0.8
- Distance from center of pin 3 to right edge: 0.4
- Distance from left edge to center of pin 2: 0.2
- Distance from center of pin 1 to center of pin 2: 0.5
- Distance from center of pin 2 to center of pin 3: 0.5
- Distance from center of pin 3 to right edge: 0.3

Side View Dimensions:

- Overall height: 1.6
- Distance from bottom edge to top of pin 1: 0.5
- Distance from bottom edge to top of pin 2: 0.5
- Distance from bottom edge to top of pin 3: 0.3

Cross-sectional View Dimensions:

- Overall width: 0.75
- Distance from left edge to center of pin 1: 0.6
- Distance from center of pin 1 to center of pin 2: 0.1
- Distance from center of pin 2 to center of pin 3: 0.1 MIN
- Distance from center of pin 3 to right edge: 0.1

Legend:

- 1 : Source
- 2 : Drain
- 3 : Gate

Package Type: SMCP

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

Electrical Characteristics at Ta=25°C

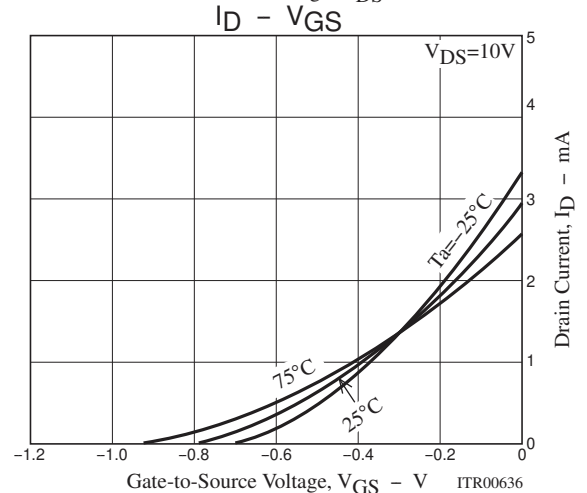
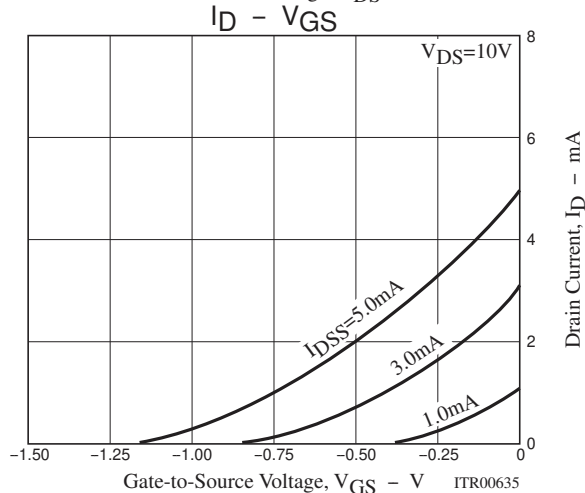
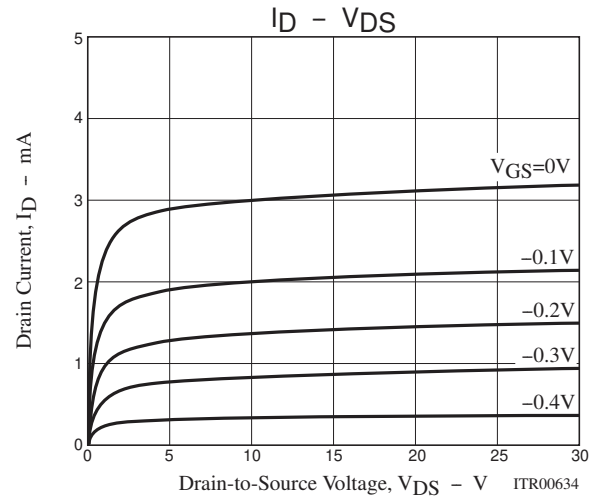
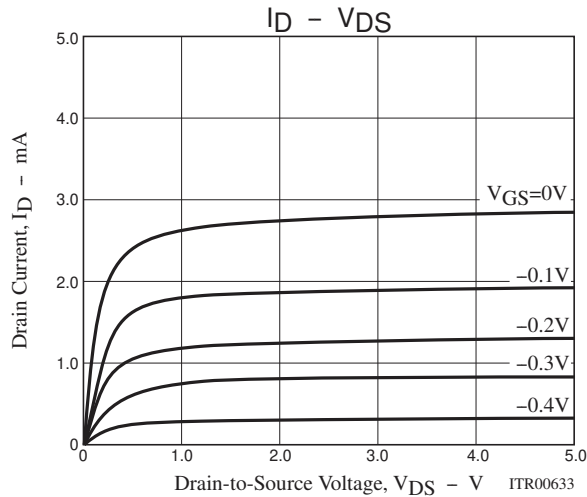
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A$, $V_{DS} = 0V$	-30			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -20V$, $V_{DS} = 0V$			-1.0	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V$, $I_D = 1\mu A$	-0.18	-0.95	-2.2	V
Drain Current	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

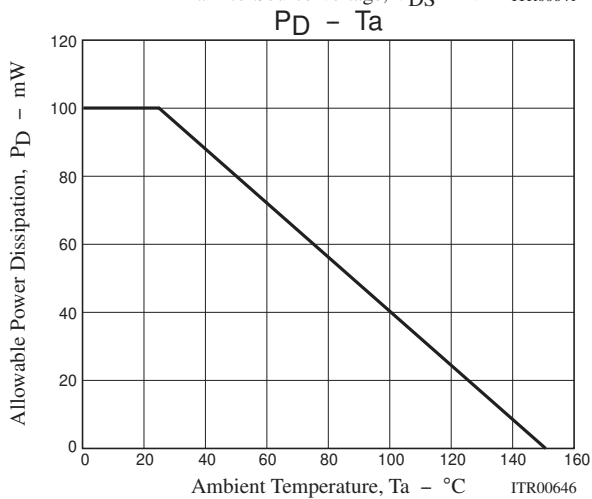
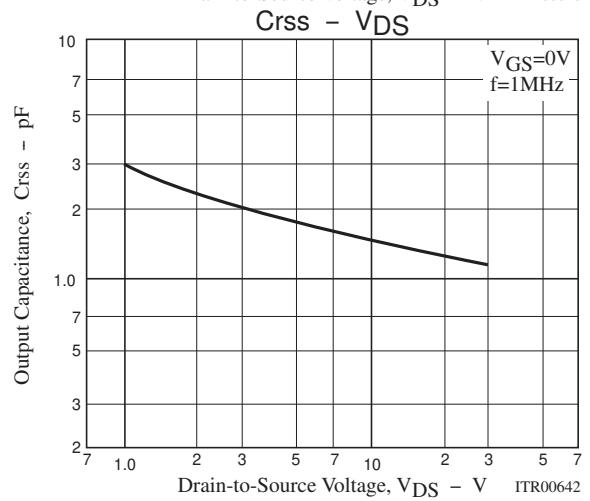
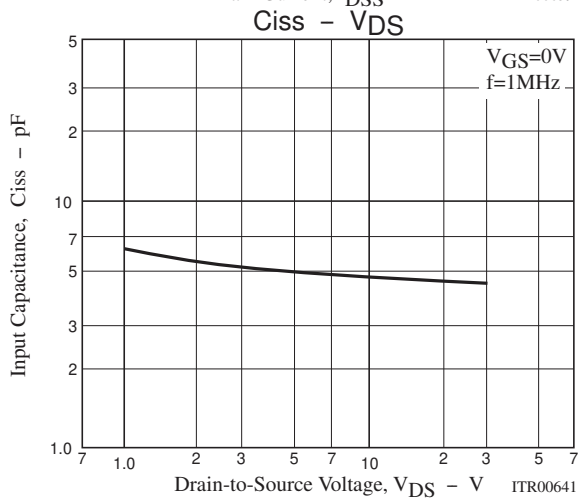
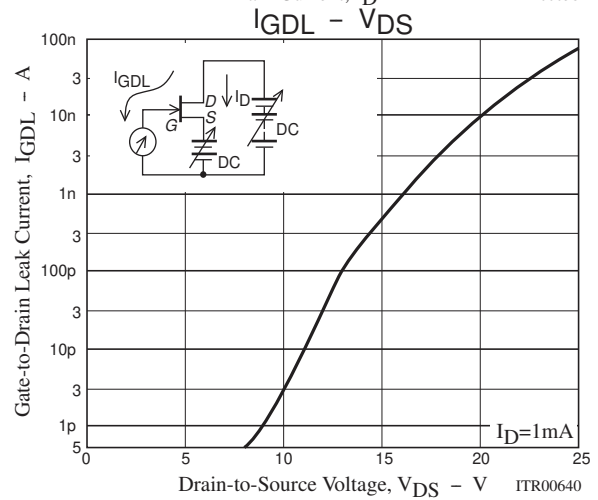
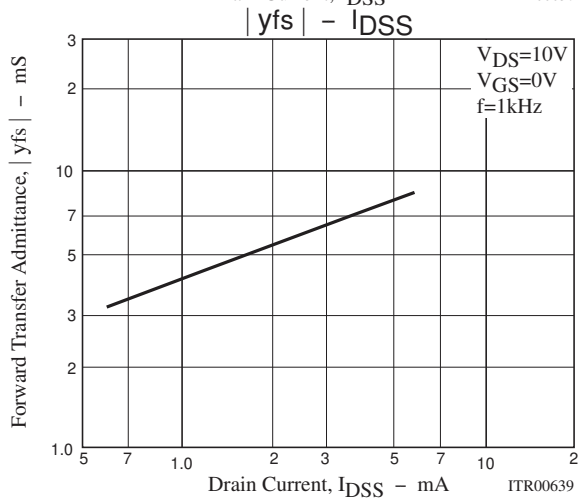
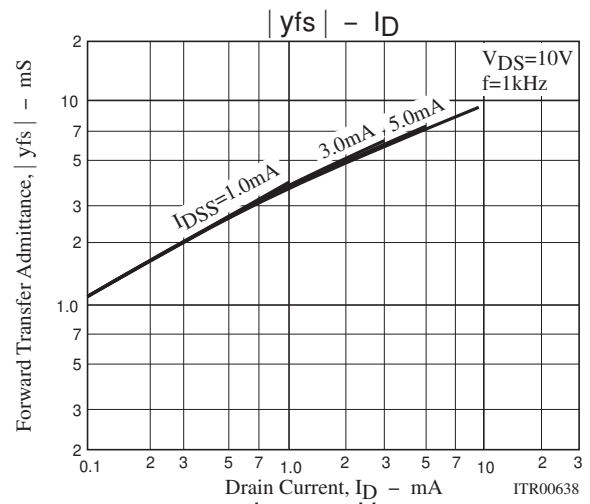
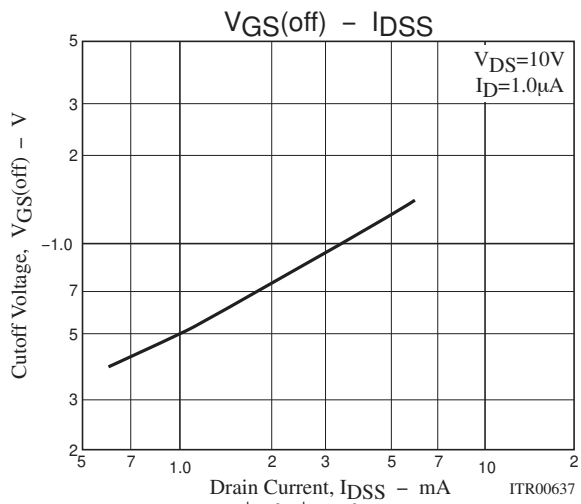
* : The 2SK3796 is classified by I_{DSS} as follows : (unit : mA)

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	





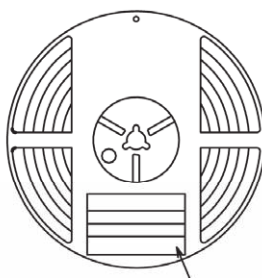
Embossed Taping Specification

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)

TYPE	0000000000
LOT	00
QTY	0,000 (1) LEAD FREE *
SPECIAL	*20722005310C*
ASSEMBLY	**** (DIFFUSION:****)

Outer box label

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

TYPE CODE	00000000000000000000
TYPE	0000000000
QTY	0,000 PCS (1) LEAD FREE *
LOT	0000000000
PACKAGE	0000000000
SPECIAL	*20722005310C*
ASSEMBLY	**** (DIFFUSION:****)

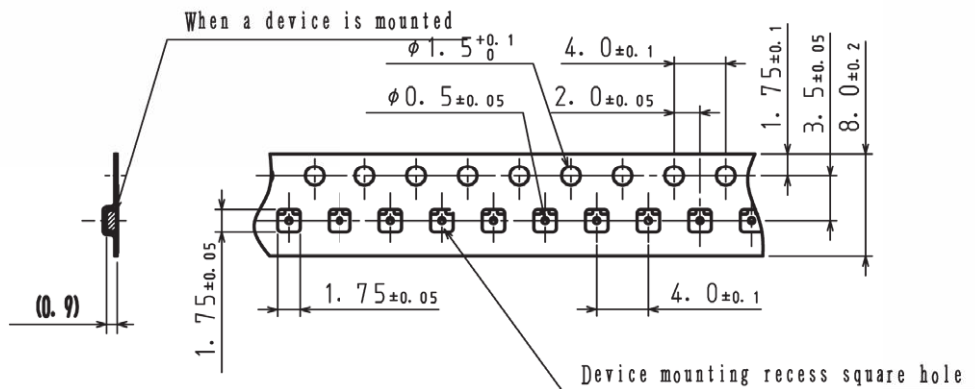
NOTE (1)

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

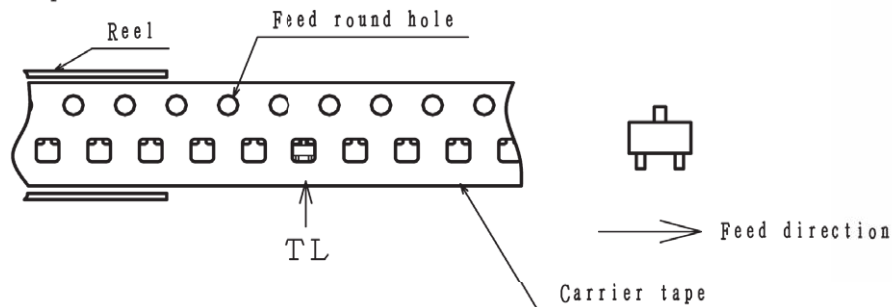
Label	JEITA Phase
.....	JEITA Phase 3

2. Taping configuration

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



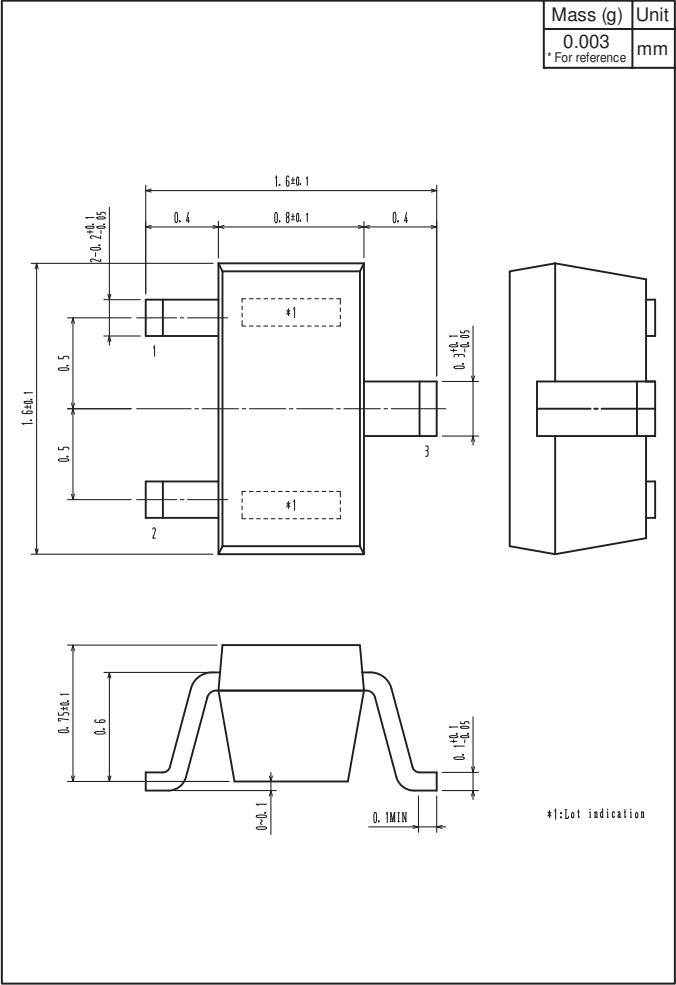
2-2. Device placement direction



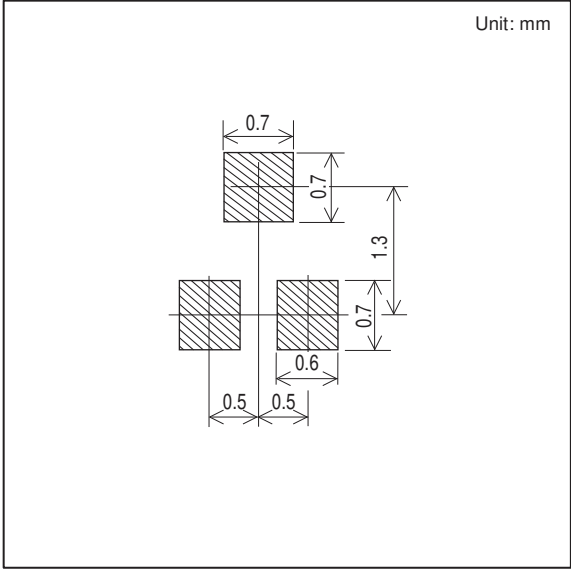
Those with one electrode terminal on the feed hole side.....TL

Outline Drawing

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



Land Pattern Example



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