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# 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

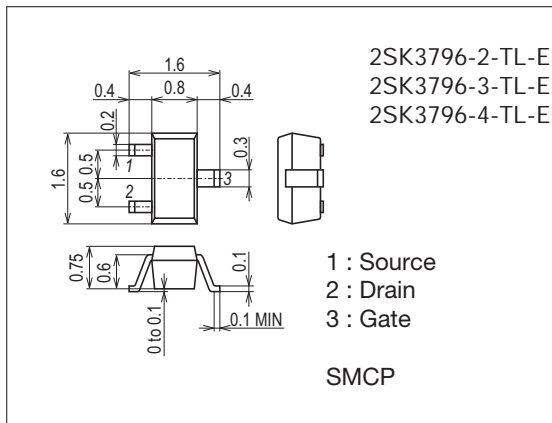
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V <sub>DSX</sub>		30	V
Gate-to-Drain Voltage	V <sub>GDS</sub>		-30	V
Gate Current	I <sub>G</sub>		10	mA
Drain Current	I <sub>D</sub>		10	mA
Allowable Power Dissipation	P <sub>D</sub>		100	mW
Junction Temperature	T <sub>j</sub>		150	°C
Storage Temperature	T <sub>stg</sub>		-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)

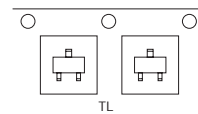
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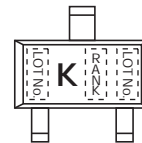
### Product & Package Information

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

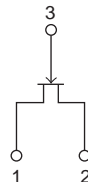
### Packing Type: TL



### Marking



### Electrical Connection



# 2SK3796

## Electrical Characteristics at Ta=25°C

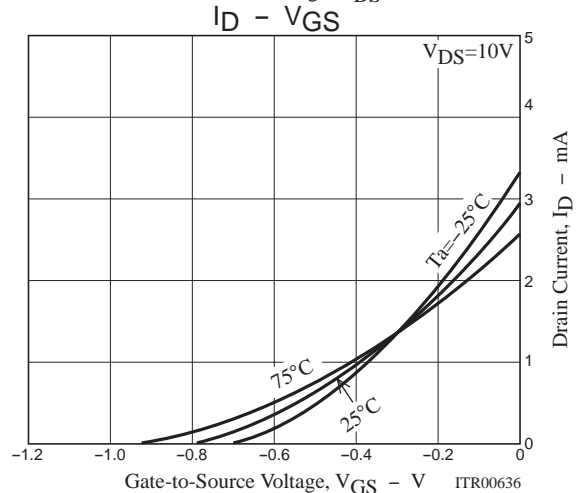
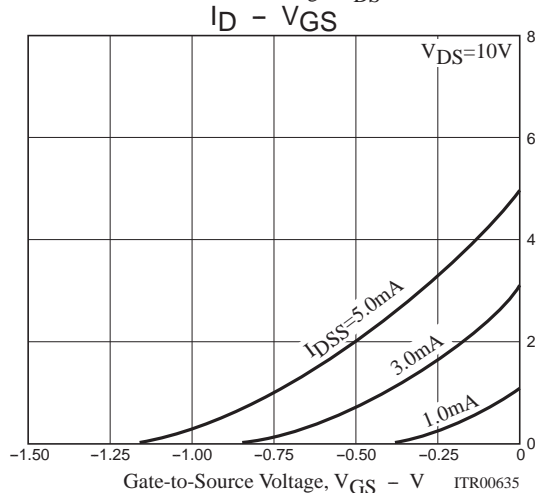
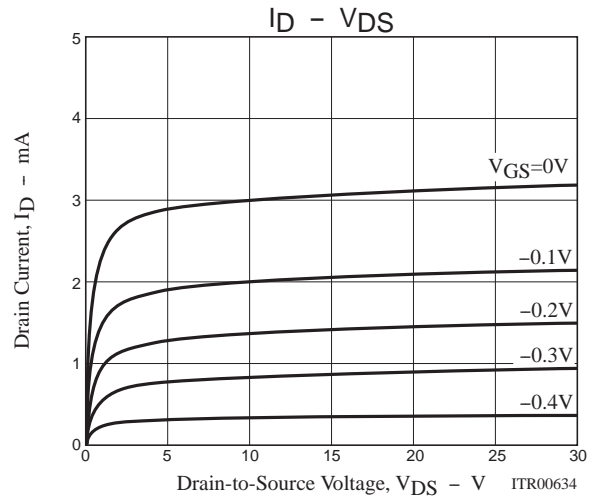
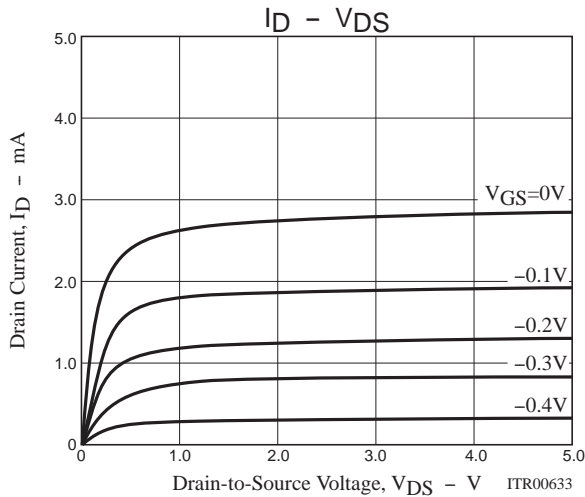
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I <sub>G</sub> =-10μA, V <sub>DS</sub> =0V	-30			V
Gate Cutoff Current	I <sub>GSS</sub>	V <sub>GS</sub> =-20V, V <sub>DS</sub> =0V			-1.0	nA
Cutoff Voltage	V <sub>GS(off)</sub>	V <sub>DS</sub> =10V, I <sub>D</sub> =1μA	-0.18	-0.95	-2.2	V
Drain Current	I <sub>DSS</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V	0.6*		6.0*	mA
Forward Transfer Admittance	y <sub>fs</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V, f=1kHz	3.0	6.5		mS
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V, f=1MHz		4		pF
Reverse Transfer Capacitance	C <sub>rss</sub>	V <sub>DS</sub> =10V, V <sub>GS</sub> =0V, f=1MHz		1.1		pF
Static Drain-to-Source On-State Resistance	R <sub>DS(on)</sub>	V <sub>DS</sub> =10mV, V <sub>GS</sub> =10V		200		Ω

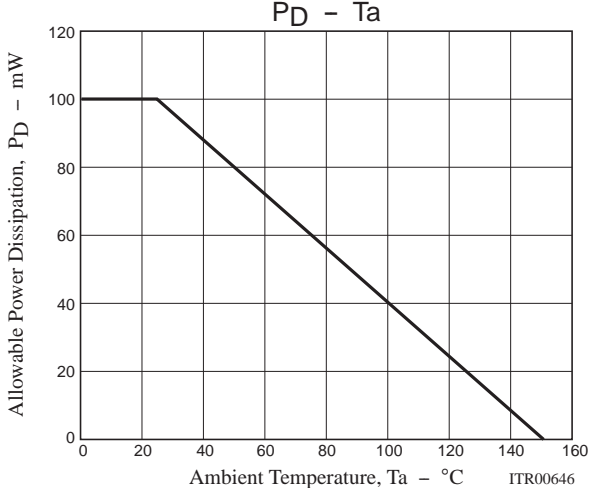
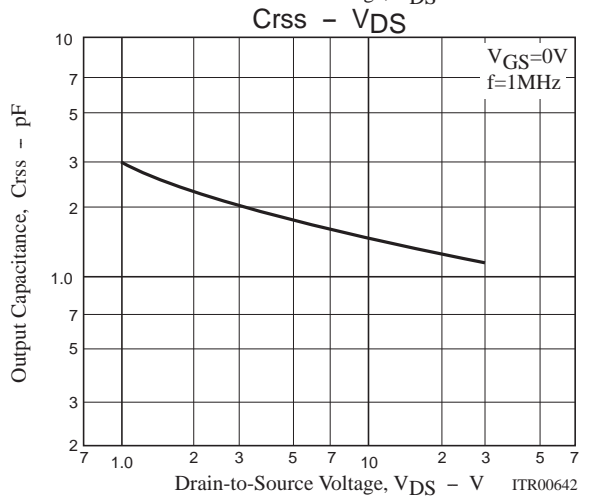
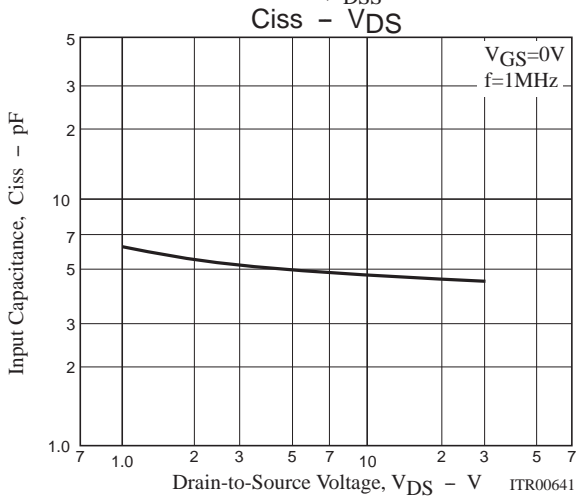
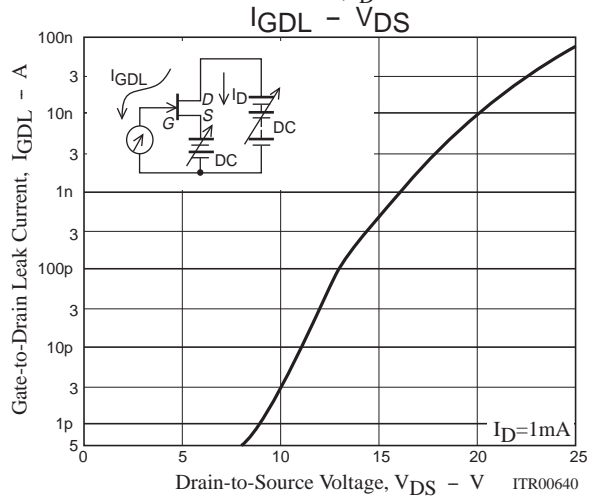
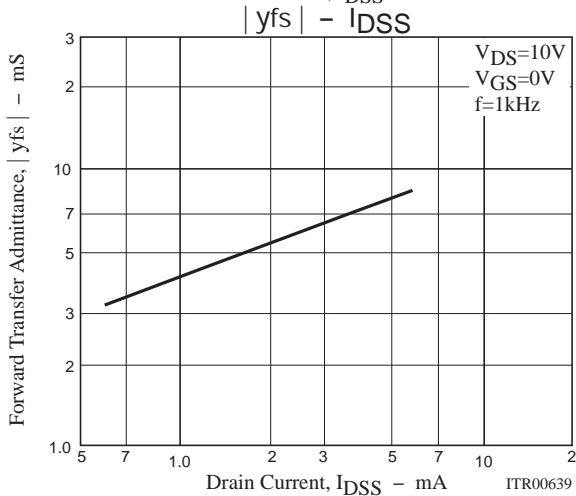
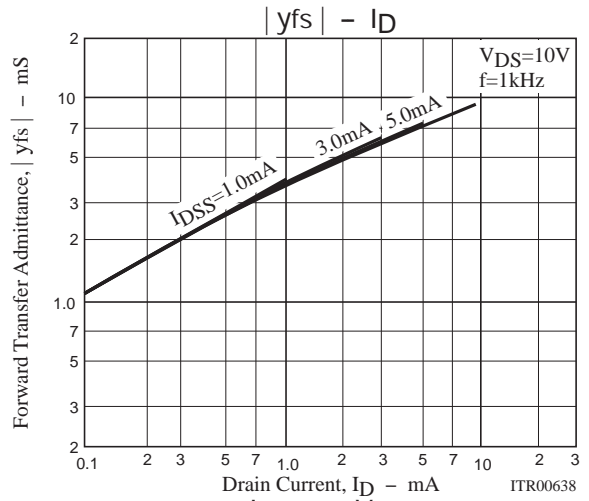
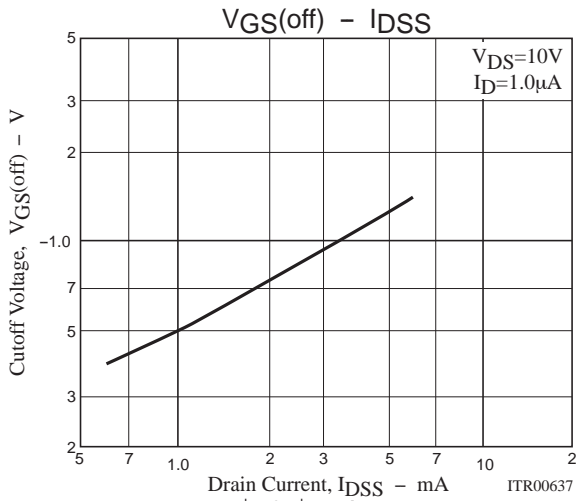
\* : The 2SK3796 is classified by I<sub>DSS</sub> as follows : (unit : mA)

Rank	2	3	4
I <sub>DSS</sub>	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	





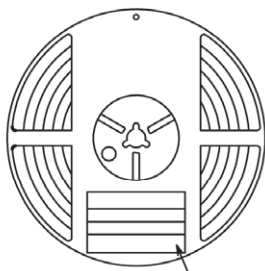
Embossed Taping Specification

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

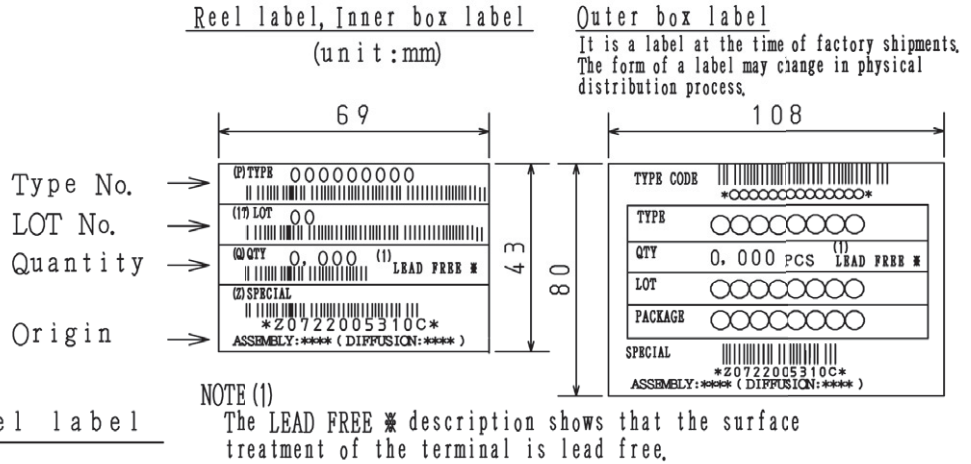
1. Packing Format

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



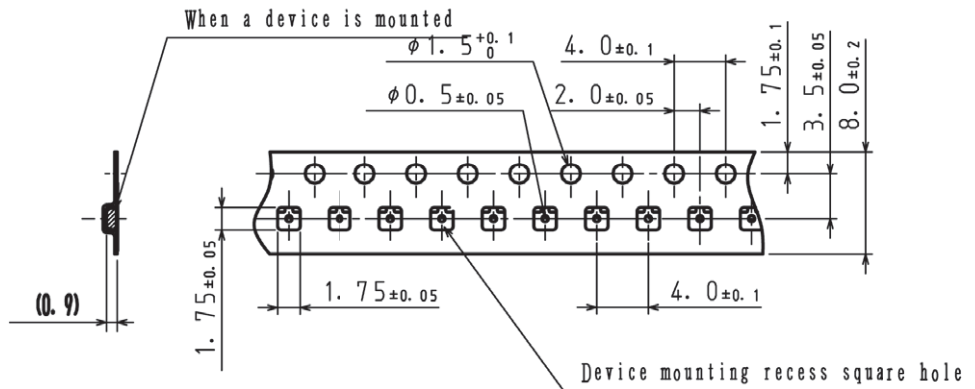
Reel label



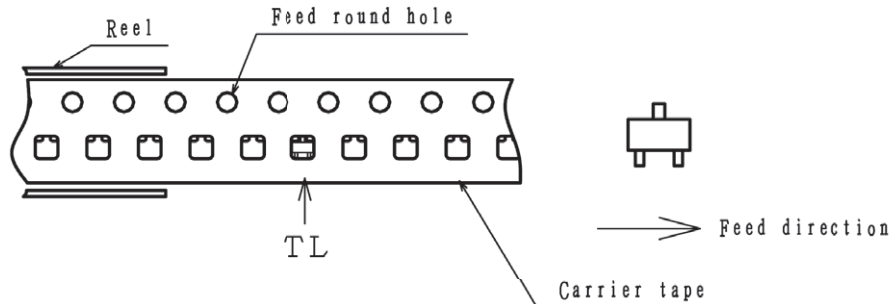
Label	JEITA Phase
.....	JEITA Phase 3

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



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