2SK3796



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

Applications

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

Features

- · Small IGSS
- · Small Ciss

Specifications

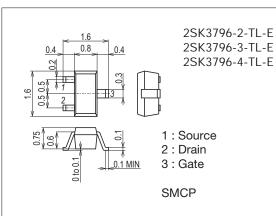
Absolute Maximum Ratings at Ta=25°C

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

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

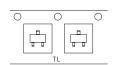


Product & Package Information

: SMCP Package

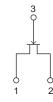
• JEITA, JEDEC : SC-75, SOT-416 • Minimum Packing Quantity: 3,000 pcs./reel

Packing Type: TL Marking





Electrical Connection



Electrical Characteristics at Ta=25°C

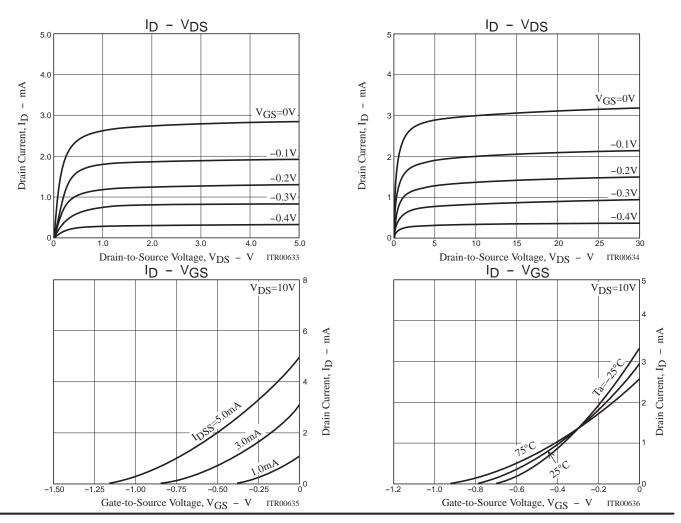
Parameter	Symbol	Conditions	Ratings			Unit	
Faranteter	Symbol		min	typ	max	OTIIL	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	IG=-10μA, VDS=0V	-30			V	
Gate Cutoff Current	IGSS	V _{GS} =-20V, V _{DS} =0V			-1.0	nA	
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1μA	-0.18	-0.95	-2.2	V	
Drain Current	IDSS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

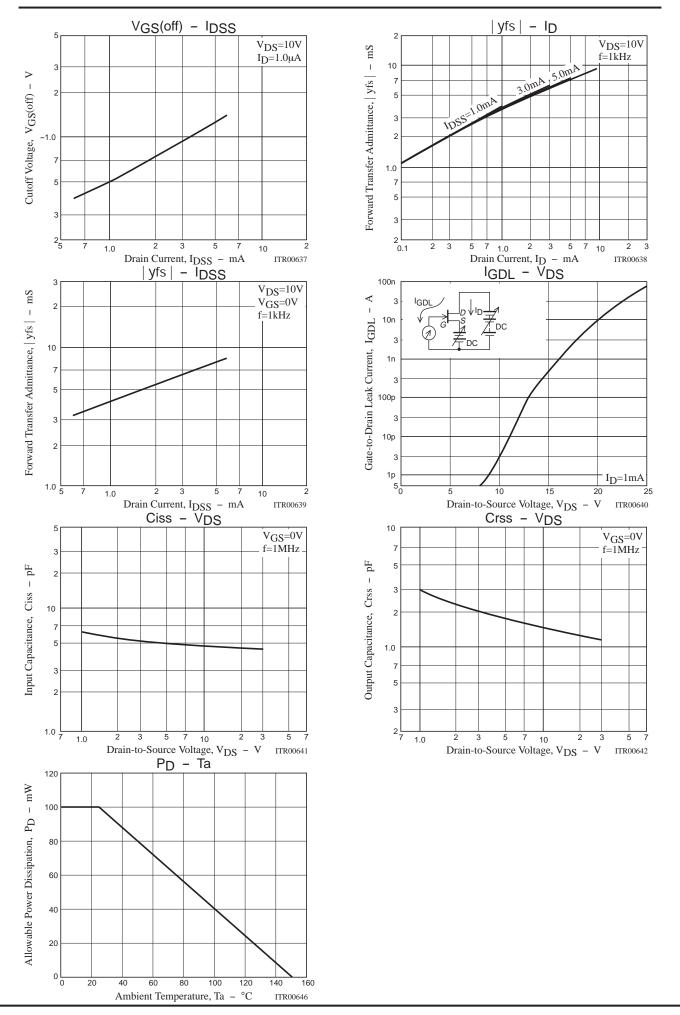
*: The 2SK3796 is classified by IDSS as follows: (unit: mA)

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

Ordering Information

Device	Package	Shipping	memo	
2SK3796-2-TL-E	SMCP	3,000pcs./reel		
2SK3796-3-TL-E	96-3-TL-E SMCP		Pb Free	
2SK3796-4-TL-E	SMCP	3,000pcs./reel		



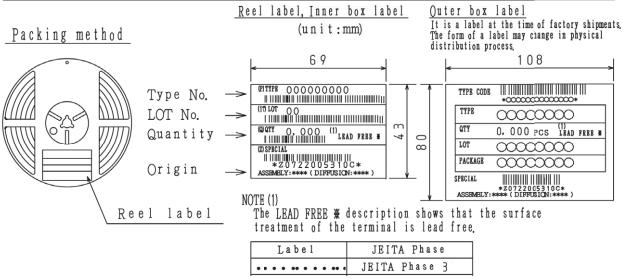


Embossed Taping Specification

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

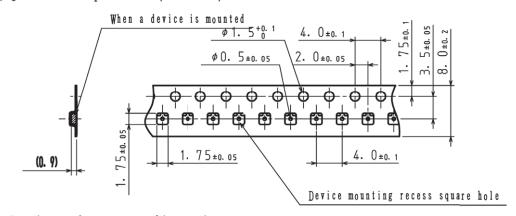
1. Packing Format

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

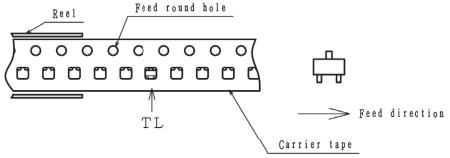


7. Taping configuration

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



2-2. Device placement direction



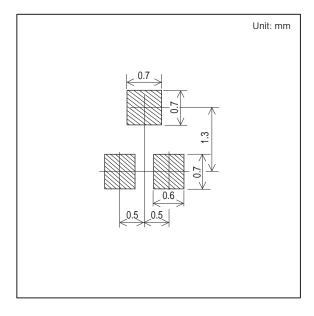
Those with one electrode terminal on the feed hole side.....TL

Outline Drawing

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

Mass (g) Unit 0.003 mm

Land Pattern Example



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