

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TF408



N-Channel JFET 30V, 0.6 to 3.0mA, 5.0mS, USFP

http://onsemi.com

Applications

· Low-Frequency general-purpose amplifier, impedance conversion, infrared sensor applications

Features

- · Ultrasmall package facilitates miniaturization in end products: 1.0mm×0.6mm×0.27mm (max 0.3mm)
- Small IGSS: max -1.0nA (VGS= -20V, VDS=0V)
- Small Ciss: typ 4pF (VDS= 10V, VGS=0V, f=1MHz)
- · Halogen free compliance

Specifications

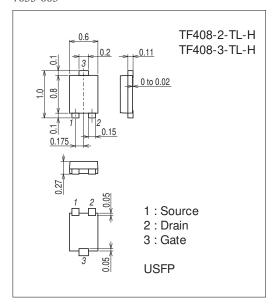
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSX		30	V
Gate-to-Drain Voltage	V _{GDS}		-30	V
Gate Current	IG		10	mA
Drain Current	ID		10	mA
Allowable Power Dissipation	PD		30	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) 7055-003



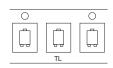
Product & Package Information

• Package : USFP

• JEITA, JEDEC : -

• Minimum Packing Quantity : 10,000 pcs./reel

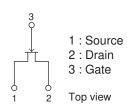
Packing Type: TL



3 LOT No

Marking

Electrical Connection



Electrical Characteristics at Ta=25°C

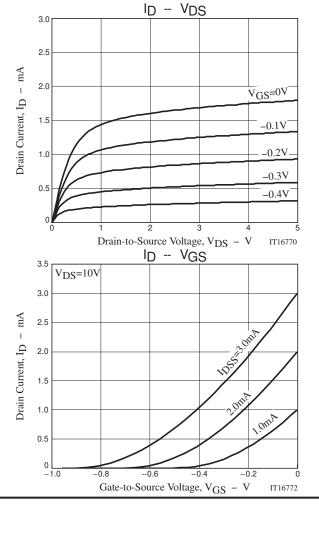
Parameter	Symbol	Conditions	Ratings			Unit	
Farameter	Farameter Symbol Conditions		min	typ	max	Offic	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	IG=-10μA, VDS=0V	-30			V	
Gate-to-Source Leakage Current	IGSS	V _{GS} =-20V, V _{DS} =0V			-1.0	nA	
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1μA	-0.18	-0.60	-1.5	V	
Drain Current	IDSS	V _{DS} =10V, V _{GS} =0V	0.6*		3.0*	mA	
Forward Transfer Admittance	yfs	V _{DS} =10V, V _{GS} =0V, f=1kHz	3.0	5.0		mS	
Input Capacitance	Ciss	VDS=10V, VGS=0V, f=1MHz		4		pF	
Reverse Transfer Capacitance	Crss	VDS=10V, VGS=0V, I=1IVIHZ		1.1		pF	

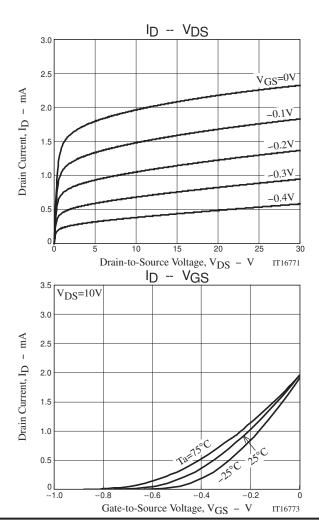
*: The TF408 is classified by IDSS as follows: (unit: mA)

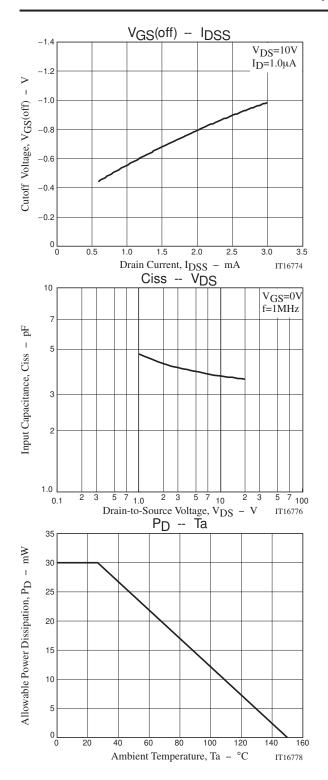
Rank	2	3		
IDSS	0.6 to 1.5	1.2 to 3.0		

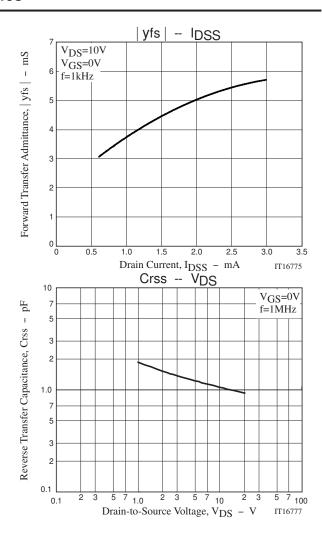
Ordering Information

Device	Package	Shipping	memo	
TF408-2-TL-H	USFP	10,000pcs./reel	Dh Free and Halagan Free	
TF408-3-TL-H	USFP	10,000pcs./reel	Pb Free and Halogen Free	







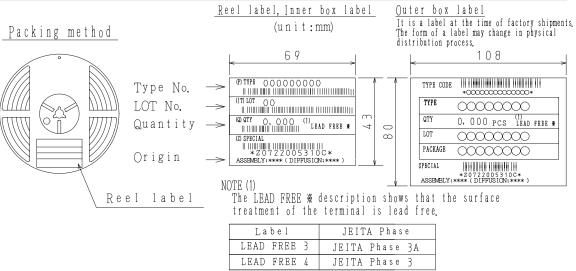


Taping Specification

TF408-2-TL-H, TF408-3-TL-H

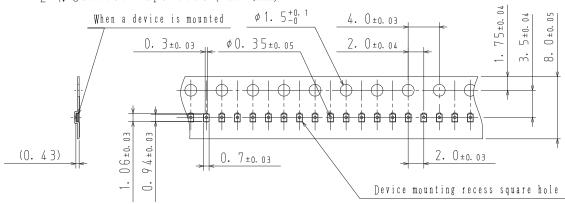
1. Packing Format

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)	
USFP	USFP	10,000	50,000	300,000	5 reels contained	6 inner boxes contained	
					Dimensions:mm (external)	Dimensions:mm (external)	
					183×72×185	440×195×210	

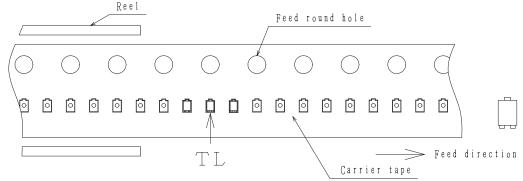


2. Taping configuration

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



2-7. Device placement direction



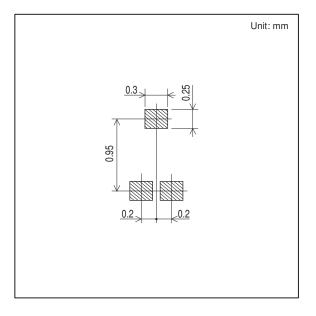
Those with one electrode terminal on the feed hole side·····TL

Outline Drawing

TF408-2-TL-H, TF408-3-TL-H

Mass (g) Unit (0.0005) mm 0.6+0.02 0.11**0.05 0.11**0.05 0.15**0.08 0.15*

Land Pattern Example



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