

TF252TH

Electrical Characteristics at Ta=25°C

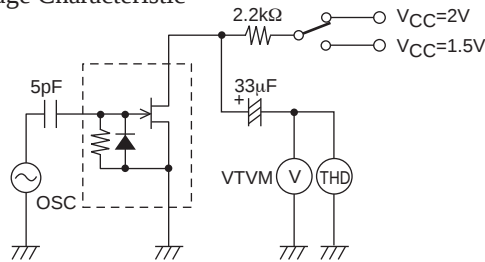
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	V(BR)GDO	I _G =-100μA	-20			V
Cutoff Voltage	V _{GS(off)}	V _{DS} =2V, I _D =1μA	-0.1	-0.4	-1.0	V
Drain Current	I _{DSS}	V _{DS} =2V, V _{GS} =0V	140*		350*	μA
Forward Transfer Admittance	y _{fs}	V _{DS} =2V, V _{GS} =0V, f=1kHz	0.8	1.4		mS
Input Capacitance	C _{iss}	V _{DS} =2V, V _{GS} =0V, f=1MHz		3.1		pF
Reverse Transfer Capacitance	C _{rss}			0.95		pF
[Ta=25°C, V _{CC} =2.0V, R _L =2.2kΩ, C _{in} =5pF, See specified Test Circuit.]						
Voltage Gain	G _V	V _{IN} =10mV, f=1kHz		1.0		dB
Reduced Voltage Characteristic	ΔG _{VV}	V _{IN} =10mV, f=1kHz, V _{CC} =2.0V → 1.5V		-0.6	-2.0	dB
Frequency Characteristic	ΔG _{vf}	f=1kHz to 110Hz			-1.0	dB
Total Harmonic Distortion	THD	V _{IN} =30mV, f=1kHz		0.65		%
Output Noise Voltage	V _{NO}	V _{IN} =0V, A curve		-106	-102	dB

* : The TF252TH is classified by I_{DSS} as follows : (unit : μA)

Rank	4	5
I_{DSS}	140 to 240	210 to 350

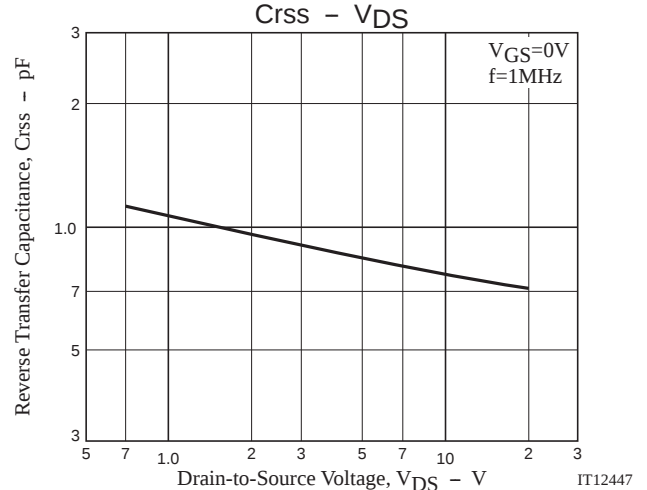
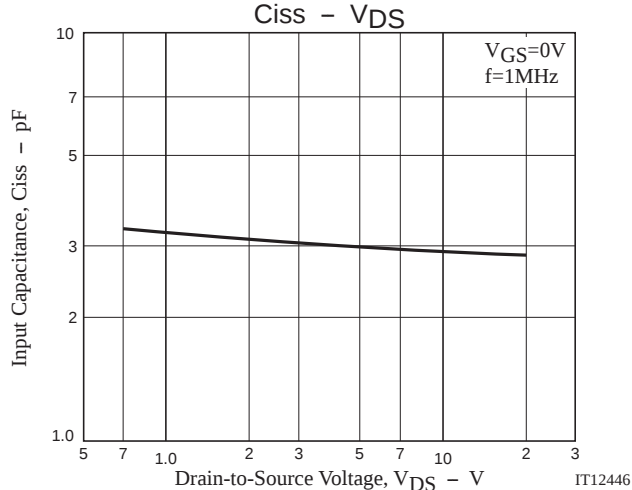
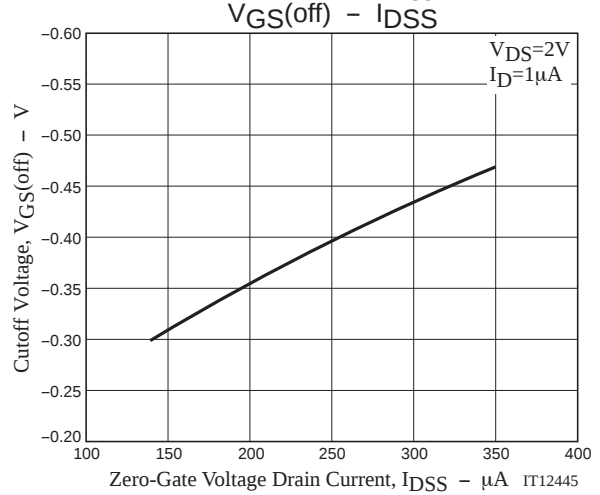
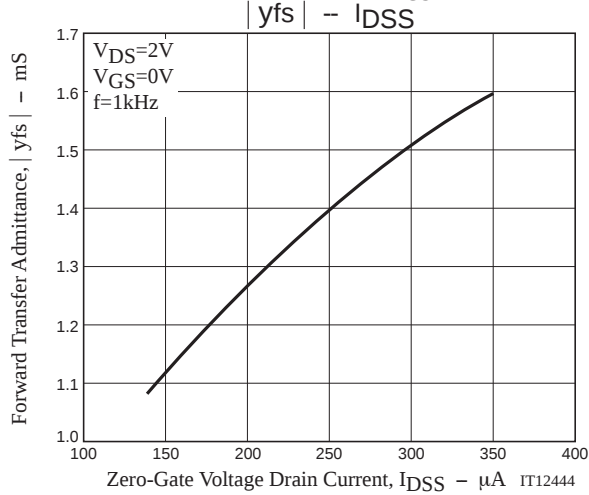
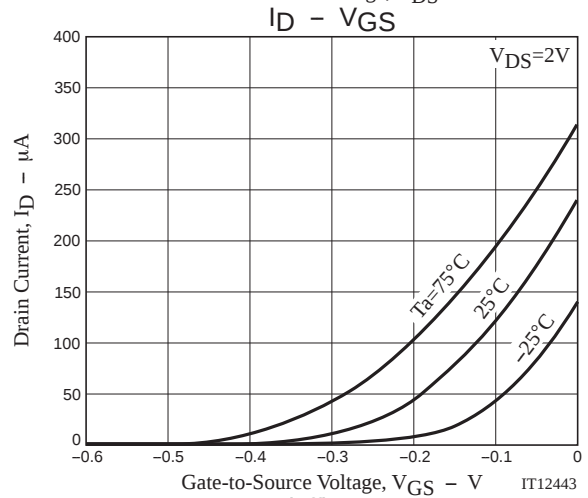
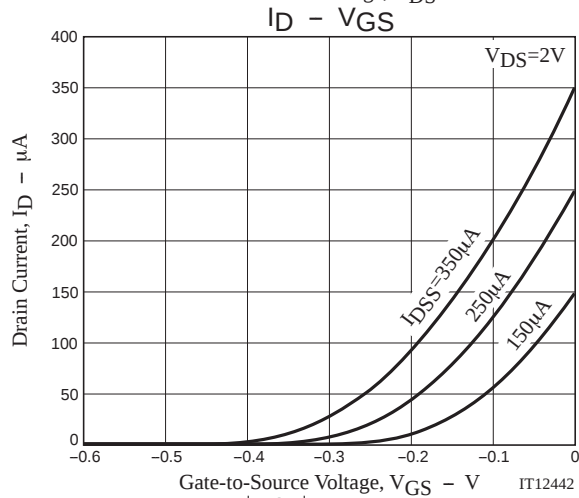
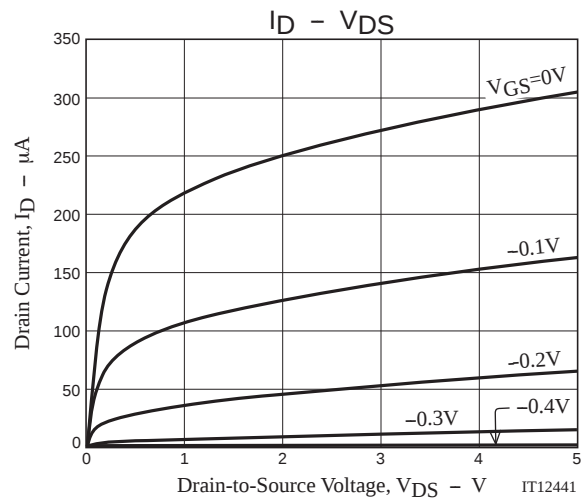
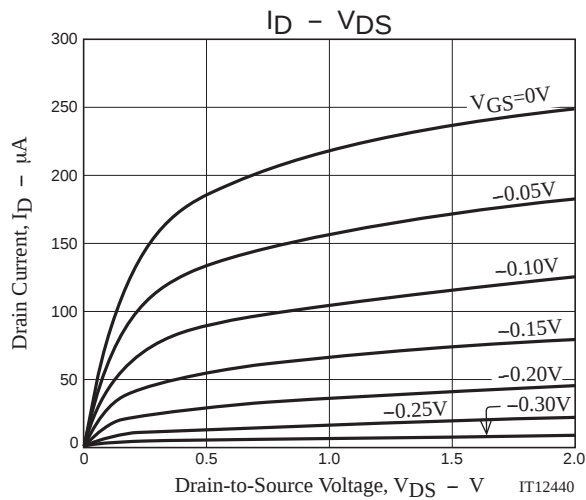
Test Circuit

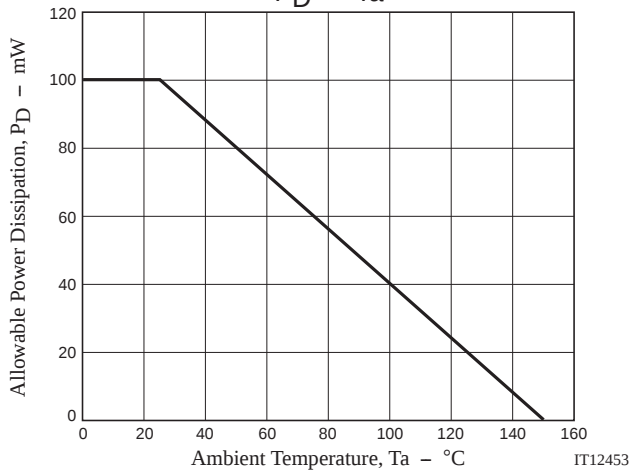
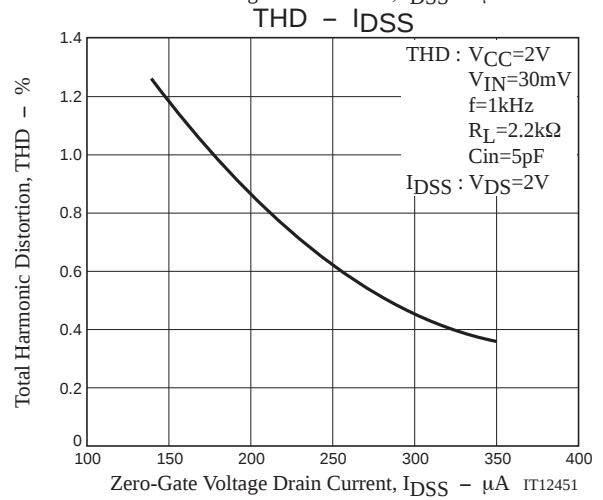
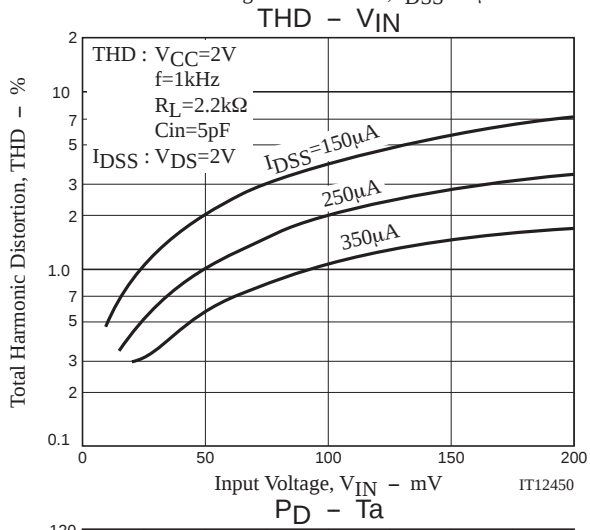
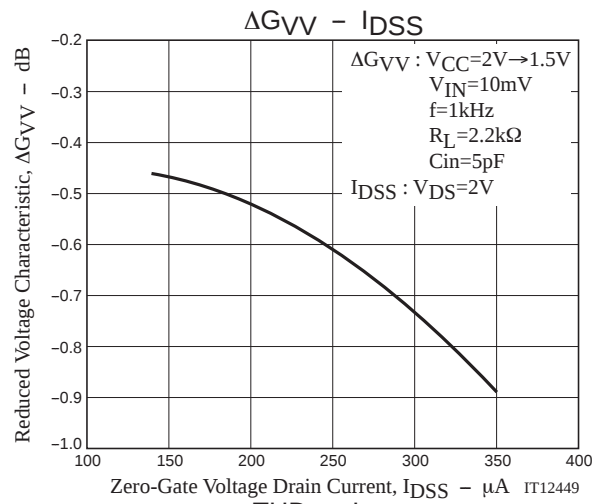
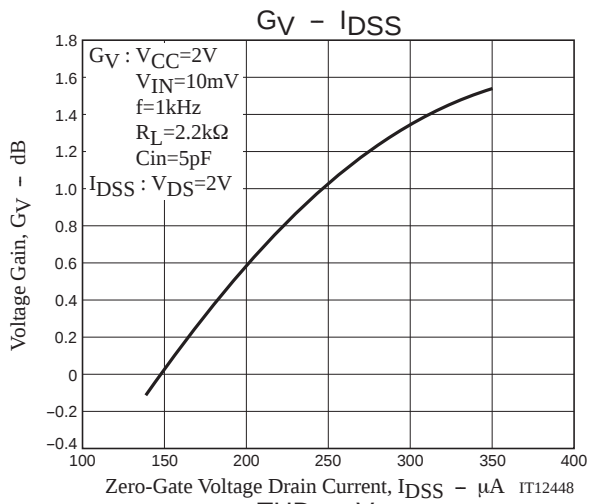
Voltage gain
Frequency Characteristic
Distortion
Reduced Voltage Characteristic



Ordering Information

Device	Package	Shipping	memo
TF252TH-4-TL-H	VTFP	8,000pcs./reel	Pb Free and Halogen Free
TF252TH-5-TL-H	VTFP	8,000pcs./reel	





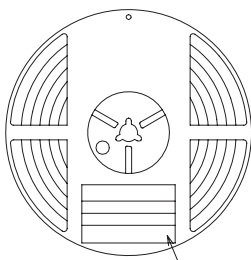
Taping Specification

TF252TH-4-TL-H, TF252TH-5-TL-H

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)
VTFP	VSFP	8,000	40,000	240,000	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)

(P) TYPE	0000000000
(T) LOT	00
(Q) QTY	0,000 (1) LEAD FREE *
(S) 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	*****
TYPE	0000000000
QTY	0,000 PCS (1) LEAD FREE *
LOT	0000000000
PACKAGE	0000000000
SPECIAL	
	20722005310C
	ASSEMBLY:**** (DIFFUSION:****)

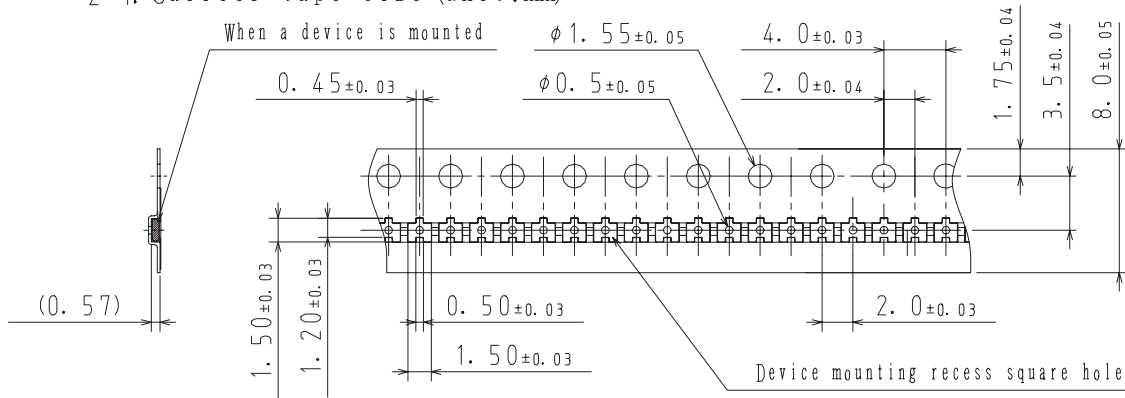
NOTE (1)

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

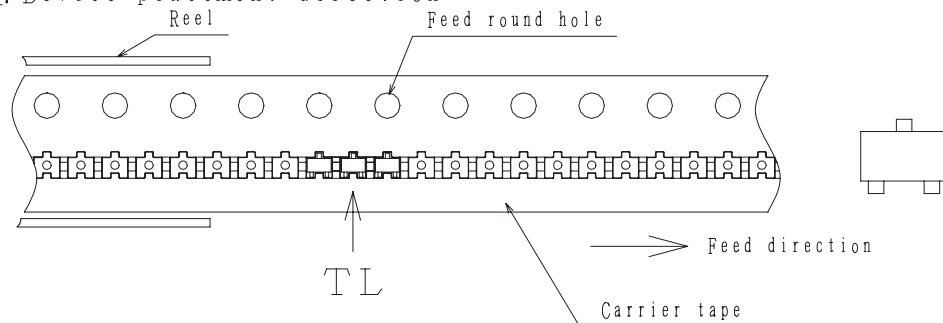
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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



2-2. Device placement direction

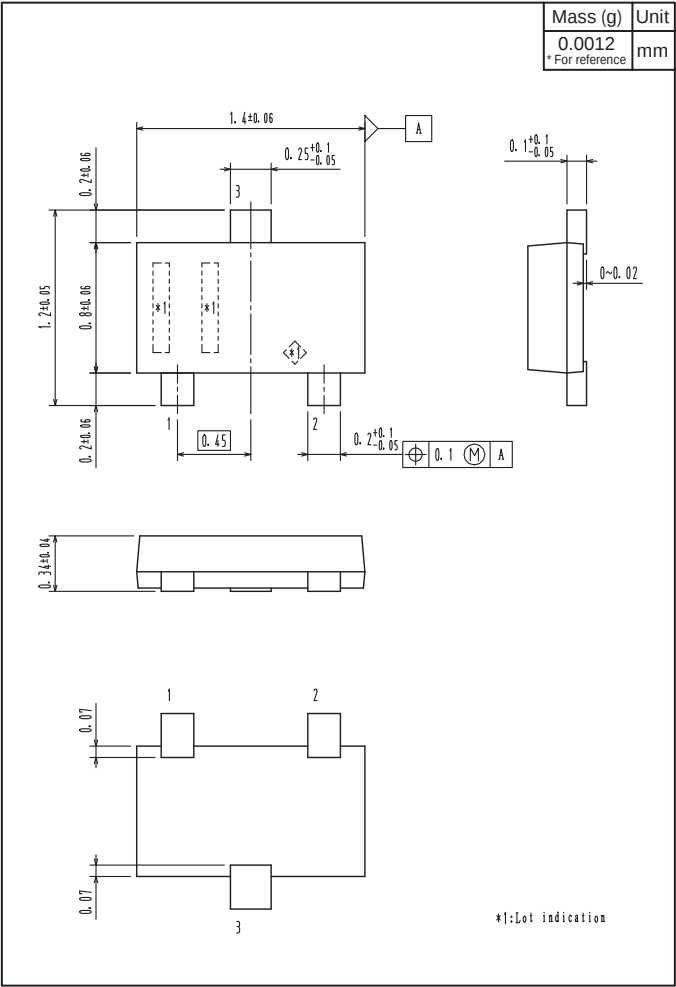


Those with oen electrode terminal on the feed hole side.....TL

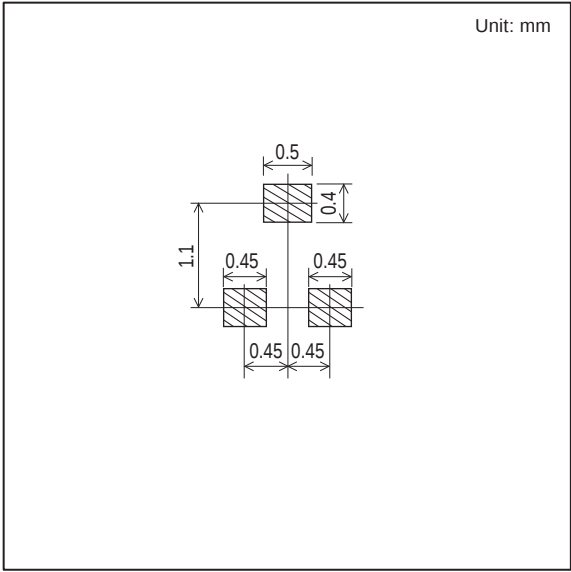
TF252TH

Outline Drawing

TF252TH-4-TL-H, TF252TH-5-TL-H



Land Pattern Example



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